

Quarter 76
December 2014



Ott/Story/Cordova
Operational Units 1 and 2
Groundwater Summary Report
Quarter 76
(December 2014)

December 2014

Prepared by
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For
Michigan Department of Environmental Quality

Contents

1. Total Concentration Tables

This section is a continuation of the Black and Veatch Tables 5.1 through 5.6. The tables contain the total organic, benzene, and n,n-dimethylbenzeneamine concentrations for all monitoring and extraction wells for each quarterly event from 1996 to present.

2. Total Organic Compound Concentrations Statistical Values Table

Black and Veatch table 5.7 provides the maximum, minimum, average, and median concentrations of total organic compounds reported for all monitoring and extraction wells combined from 1996 to present.

3. Appendix A, Detection Frequency Report for the Sixty-sixth Quarter of Groundwater Monitoring.

4. Appendix B, Summary of Compounds Detected in Groundwater Samples for Sixty-sixth Quarter of Groundwater Monitoring and Comparison to the Michigan Residential Groundwater Drinking Values.

5. Appendix C, Trend Graphs for Total Organic Concentrations.

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)																
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99	
Upper Unconfined System																	
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	
W-7s	NS	NS	NS	NS	NS	NS	NS	NS	NS	110	43	39	NS	64	30	15	
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	ND	ND	NS	14	5	ND	
W-15s	NS	NS	NS	NS	NS	NS	NS	NS	NS	14	18	22	NS	13	16	14	
W-16s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	8	NS	ND	8	ND	
W-17s	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,842	7,253	8,989	NS	4,908	5,947	6,385	
W-18s	NS	NS	NS	NS	NS	NS	NS	NS	NS	146,170	100,014	220,676	NS	98,951	117,890	241,372	
W-26s	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	10	19	NS	16	22	23	
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	
W-101s	202,802	245,582	183,135	254,675	308,560	237,579	100,449	359,176	271,056	360,212	349,924	328,039	356,656	316,998	358,440	255,790	
W-102s	949	847	1,138	2,154	2,091	1,210	1,858	2,810	2,320	2,114	2,071	2,039	1,760	1,867	1,866	1,958	
W-103s	633	710	502	395	1,008	878	457	469	689	823	725	728	667	700	729	844	
W-104s	70	51	5	19	13	10	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-105s	17	432	21	22	6	8	ND	ND	13	NS	NS	NS	ND	NS	NS	NS	
W-106s	68	28	12	11	18	14	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-107s	12	26	76	24	5	6	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-110s	13	ND	1	3	5	4	ND	2	2	NS	NS	NS	13	NS	NS	NS	
W-114s	10	60	88	4	6	7	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-116s	9	35	ND	5	5	10	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-117s	15	48	ND	3	6	8	ND	ND	NS	NS	NS	NS	ND	NS	NS	NS	
W-120s	44	27	ND	2	9	4	ND	ND	5	NS	NS	NS	ND	NS	NS	NS	
W-121s	26	19	ND	ND	8	8	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-122s	20	20	ND	10	21	8	ND	5	ND	NS	NS	NS	ND	NS	NS	NS	
W-123s	61	18	ND	7	11	17	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	
W-124s	20,521	21,819	26,468	18,709	13,733	2,691	26,423	2,365	2,705	3,124	1,327	1,377	1,242	1,782	1,211	680	
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	86,965	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6,421	NS
MW-12s	16	180	13	10	35	24	ND	217	51	241							
MW-16s	624	393	70	99	47	6	1	16	5	NS	NS	NS	ND	NS	NS	NS	
MW-23s	ND	137	50	35	332	17	20	5	4	28	13	6	2	3	3	4	
MW-33s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	
MW-34s	74	36	ND	33	7	12	9	ND	ND	NS	NS	NS	ND	NS	NS	NS	
MW-38s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	NS	NS	NS	NS	NS	NS										
NS	5	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	9	4	9	NS	17	9	ND	NS	21	2	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	NS
NS	29	11	13	NS	12	5	9	NS	10	7	NS	15	NS	23	NS	43
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	2,825	2,736	2,180	NS	1,978	2,248	2,415	NS	1,571	3,156	NS	1,921	NS	1,905	NS	950
NS	59,437	51,867	24,586	NS	28,577	26,025	64,291	NS	28,561	3,264	NS	147,718	NS	142,409	NS	60,871
NS	21	21	23	NS	12	14	13	NS	8	12	NS	NS	NS	17	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS										
294,102	274,708	232,257	280,761	243,590	251,045	313,860	372,052	440,536	351,955	174,684	NS	294,048	NS	775,104	NS	390,591
1,470	1,287	1,522	1,293	1,208	930	1,319	1,137	1,117	1,010	1,396	NS	1,577	NS	1,308	NS	1,020
671	595	736	687	506	478	574	580	467	430	371	NS	404	NS	380	NS	440
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	1	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
5	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	1	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
556	1,377	850	803	1,129	2,439	1,058	1,110	1,251	1,305	995	NS	1,030	NS	924	NS	940
NS	NS	NS	NS	NS	NS	NS										
NS	NS	NS	NS	NS	NS	NS										
67	8	53	19	ND	ND	30	15	ND	ND	18	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
167	92	41	81	41	29	23	46	44	20	11	NS	18	NS	15	NS	12
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Analytical Results (ug/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
W-3	NS	NS														
W-5s	NS	NS														
W-6s	NS	NS														
W-7s	NS	ND	NS	NS	NS	10	NS	NS	NS	8	NS	NS	NS	2	NS	NS
W-13s	NS	NS														
W-15s	NS	24	NS	28	NS	18	NS	16	NS	10	NS	15	NS	11	NS	40
W-16s	NS	ND	NS	NS												
W-17s	NS	811	NS	886	NS	1,052	NS	548	NS	757	NS	1,032	NS	1,098	NS	1,226
W-18s	NS	67,055	NS	87,244	NS	19,748	NS	123,611	NS	163,993	NS	142,916	NS	224,654	NS	143,860
W-26s	NS	6	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-28s	NS	NS														
W-29s	NS	NS														
W-101s	NS	255,222	NS	183,763	NS	146,031	NS	127,193	NS	240,253	NS	341,019	NS	237,155	NS	221,522
W-102s	NS	566	NS	714	NS	672	NS	796	NS	676	NS	219	NS	246	NS	321
W-103s	NS	405	NS	285	NS	329	NS	295	NS	240	NS	275	NS	220	NS	240
W-104s	NS	ND	NS	NS												
W-105s	NS	ND	NS	NS												
W-106s	NS	ND	NS	NS												
W-107s	NS	ND	NS	NS												
W-110s	NS	6	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-114s	NS	1	NS	NS	NS	1	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-116s	NS	ND	NS	NS												
W-117s	NS	ND	NS	NS												
W-120s	NS	ND	NS	NS												
W-121s	NS	ND	NS	NS												
W-122s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	7	NS	NS
W-123s	NS	ND	NS	NS												
W-124s	NS	1,086	NS	1,220	NS	942	NS	759	NS	677	NS	499	NS	448	NS	573
W-126s	NS	NS														
W-127s	NS	NS														
MW-12s	NS	ND	NS	ND	NS	ND	NS	ND	NS	6	NS	ND	NS	ND	NS	ND
MW-16s	NS	ND	NS	NS												
MW-23s	NS	14	NS	12	NS	19	NS	9	NS	ND	NS	2	NS	2	NS	3
MW-33s	NS	12	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	NS	10	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38s	NS	10	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	2.2	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	26	NS	11	NS	9.8	NS	30	NS	14	NS	12	NS	14	NS	27	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS
NS	898	NS	770	NS	650	NS	866	NS	626	NS	984	NS	740	NS	496	NS
NS	304,373	NS	111,716	NS	133,057	285,458	87,429	40,606	27,498	NS	494,566	NS	131,823	NS	142,938	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	183,908	NS	111,806	NS	106,716	87,926	83,279	86,229	56,635	NS	82,201	NS	45,551	NS	38,253	NS
NS	397	NS	362	NS	330	407	349	401	433	NS	456	NS	477	NS	420	NS
NS	216	NS	173	NS	166	NS	165	NS	176	NS	165	NS	151	NS	136	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	15
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	38
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	5.2	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	453	NS	463	NS	457	392	378	387	343	NS	363	NS	346	NS	324	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	1.9	NS	1.0	NS	ND	NS	ND	NS	ND	NS	3.3	NS	6.4	NS	31	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	6.7
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	6.6

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Analytical Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Upper Unconfined System										
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	10	NS	NS	NS	12	NS	NS	NS	17	NS
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	40	NS	47	NS	32	NS	14	NS	7.6	NS
W-16s	ND	NS	NS	NS	5.6	NS	NS	NS	ND	NS
W-17s	644	NS	496	NS	599	NS	326	NS	559	NS
W-18s	142,292	NS	111,766	NS	131,891	NS	23,947	NS	3,806	NS
W-26s	ND	NS	NS	NS	ND	NS	NS	NS	1.1	NS
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	37,842	NS	32,343	NS	29,764	NS	24,934	NS	26,894	NS
W-102s	605	NS	425	NS	470	NS	337	NS	425	NS
W-103s	144	NS	128	NS	115	NS	83	NS	118	NS
W-104s	5.2	NS	16	NS	5.4	NS	NS	NS	ND	NS
W-105s	11	12	NS	NS	6.6	NS	NS	NS	5.9	NS
W-106s	16	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-107s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-110s	7.2	NS	NS	NS	7.3	NS	NS	NS	7.4	NS
W-114s	19	NS	ND	NS	ND	NS	NS	NS	ND	NS
W-116s	19	ND	NS	NS	ND	NS	NS	NS	ND	NS
W-117s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-120s	1.3	NS	NS	NS	11	NS	NS	NS	5.6	NS
W-121s	5.2	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-122s	5.5	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-123s	6.3	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-124s	418	NS	313	NS	291	NS	285	NS	226	NS
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	ND	NS	ND	ND	ND	NS	ND	NS	ND	NS
MW-16s	6.5	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-23s	11	NS	4.4	NS	1.7	NS	5.0	NS	ND	NS
MW-33s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-34s	ND	NS	NS	NS	ND	NS	NS	NS	11	NS
MW-38s	9.1	NS	NS	NS	14	NS	NS	NS	ND	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
K2s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	8	17	ND	3	18	5	16	ND	5	ND	36	ND	ND	ND	ND	ND
K4sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K12s	NS	111	3	40	23	ND	ND	ND	39	NS	NS	NS	20	NS	NS	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	22	ND	8	13	3	3	ND	ND	NS	NS	NS	ND	NS	NS	NS
Lower Unconfined System																
W-5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	2	NS	NS
W-6d	NS	NS	NS	NS	NS	NS	NS	NS	NS	72	126	76	NS	68	143	130
W-7d	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,919	9,731	9,017	NS	11,050	11,855	11,429
W-13d	NS	NS	NS	NS	NS	NS	NS	NS	NS	15	25	32	NS	24	34	19
W-15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	136	176	161	NS	93	123	91
W-16d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	168	217	NS	128	128	111
W-17d	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,059	3,208	2,523	NS	3,656	4,254	4,738
W-23d	NS	NS	NS	NS	NS	NS	NS	NS	NS	537	433	479	NS	404	385	396
W-26d	NS	NS	NS	NS	NS	NS	NS	NS	NS	10,318	10,933	10,072	NS	7,955	9,666	8,645
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	13	NS	NS
W-101i	14,902	6,972	33,718	33,048	41,138	41,656	11,071	31,938	31,579	32,406	5,493	5,813	6,231	6,201	4,933	6,875
W-102i	216	24	15	189	121	175	130	120	90	110	110	110	180	200	140	130
W-103i	352	315	1,524	3,032	3,610	3,501	1,299	2,054	923	1,383	509	1,560	1,692	1,609	2,156	1,055
W-104i	44	102	17	28	21	43	20	4	8	8	32	2	3	5	2	3
W-105i	1,081	130	6	34	105	65	26	7	6	18	50	44	33	30	25	25
W-106i	13,402	14,012	5,729	3,496	9,900	6,697	5,351	2,72	3,658	4,239	5,067	5,324	5,256	4,822	4,562	5,206
W-107i	2,527	1,582	3,836	2,222	4,387	1,551	1,458	1,170	775	598	950	839	776	538	497	472
W-110i	409	182	225	222	796	750	430	123	348	264	580	622	601	526	519	514
W-114i	1,445	1,808	267	361	1,920	1,921	1,447	1,524	1,694	2,262	4,004	4,198	3,880	4,795	3,624	3,821
W-116i	70	20	18	46	48	64	35	36	32	30	28	27	23	26	18	19
W-117i	358	956	62	215	946	1,361	530	926	NS	708	1,367	1,652	1,445	842	1,430	693
W-120i	213	607	118	176	601	442	456	550	258	128	363	336	365	198	226	254
W-121i	317	573	59	148	368	344	205	214	179	134	208	199	216	220	193	196
W-122i	191	926	141	178	286	201	134	109	156	117	156	142	160	189	141	126
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26,059	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9,407	NS
OW 3	65	70	3	13	33	7	4	4	7	NS	NS	NS	24	NS	NS	NS
OW 9d	1,254	535	1,991	1,866	2,499	399	3,973	3,575	259	5,790	50	56	37	111	54	57

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	ND	17	13	7	9	8	7	7	11	NS						
NS	ND	NS	ND	NS	ND	NS	NS									
12	NS	NS	NS	12	NS	NS	NS	14	NS	NS	NS	NS	NS	8	NS	NS
NS	ND	NS														
NS	ND	NS	ND	NS	NS											
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS

NS	2	NS	NS	NS	1	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	119	151	102	NS	93	108	92	NS	69	109	NS	69	NS	117	NS	75
NS	12,747	11,523	11,697	NS	10,877	9,000	9,489	NS	8,946	7,493	NS	7,302	NS	11,481	NS	13,699
NS	32	20	46	NS	24	61	26	NS	24	38	NS	17	NS	8	NS	7
NS	270	202	203	NS	91	97	81	NS	44	64	NS	63	NS	71	NS	70
NS	199	150	29	NS	12	12	10	NS	6	7	NS	71	NS	28	NS	21
NS	6,696	7,270	4,744	NS	3,360	2,742	3,867	NS	4,294	4,819	NS	2,130	NS	2,236	NS	4,899
NS	294	347	251	NS	200	252	374	NS	247	620	NS	151	NS	1,451	NS	1,412
NS	6,960	7,353	7,943	NS	5,506	5,843	6,355	NS	5,579	5,150	NS	4,045	NS	4,681	NS	7,162
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
5,480	4,612	5,162	6,644	5,002	4,799	4,932	5,241	4,503	3,465	5,232	NS	4,470	NS	5,518	NS	4,270
97	63	120	110	78	94	42	69	52	94	81	NS	55	NS	42	NS	45
425	438	344	275	304	228	255	210	247	261	277	NS	230	NS	1,759	NS	1,638
3	2	ND	ND	ND	ND	2	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
24	21	18	11	10	8	9	2	ND	9	8	NS	NS	NS	ND	NS	NS
4,859	5,410	3,420	4,299	4,104	3,573	3,454	3,920	4,214	1,601	3,554	NS	2,584	NS	4,192	NS	2,537
476	540	482	341	329	303	304	204	241	204	229	NS	178	NS	166	NS	152
344	475	498	376	462	413	379	377	322	359	407	NS	222	260	2,307	2,105	2,090
2,737	4,222	5,550	7,077	5,683	8,590	8,882	6,940	6,080	8,984	5,453	NS	1,151	1,206	1,907	1,469	5,706
13	17	14	10	6	9	11	8	7	7	9	NS	NS	NS	38	NS	NS
856	1,128	1,339	510	398	431	559	424	293	622	598	NS	319	NS	1,142	NS	1,114
141	217	184	198	186	179	205	155	126	178	255	NS	65	NS	585	NS	544
138	194	180	169	160	118	149	146	94	120	119	NS	114	NS	106	NS	176
126	91	77	67	62	50	42	46	33	20	39	NS	46	NS	58	NS	78
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12	NS	NS	NS	20	NS	NS	NS	10	NS	NS	NS	4	NS	3	NS	5
48	43	26	24	22	17	30	22	19	15	24	NS	18	NS	60	NS	70

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
K2s	NS	20	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	NS	ND	NS	NS	NS	19	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K12s	NS	8	NS	NS	NS	11	NS	NS	NS	6	NS	NS	NS	29	5	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
Lower Unconfined System																
W-5d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	65	NS	57	NS	47	NS	58	NS	33	NS	45	NS	19	NS	25
W-7d	NS	11,496	NS	11,743	NS	10,961	NS	11,122	NS	8,267	NS	2,341	NS	6,195	NS	7,253
W-13d	NS	19	NS	34	NS	19	NS	15	NS	14	NS	25	NS	15	NS	10
W-15d	NS	64	NS	107	NS	50	NS	66	NS	51	NS	97	NS	73	NS	72
W-16d	NS	16	NS	67	NS	13	NS	12	NS	12	NS	ND	NS	ND	NS	11
W-17d	NS	5,025	NS	4,135	NS	3,638	NS	3,718	NS	1,994	NS	1,252	NS	696	NS	862
W-23d	NS	1,213	NS	1,144	NS	1,068	NS	925	NS	784	NS	755	NS	487	NS	571
W-26d	NS	6,266	NS	5,666	NS	5,332	NS	5,436	NS	3,972	NS	4,819	NS	4,680	NS	4,798
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	NS	4,602	NS	11,160	NS	8,151	NS	11,731	NS	13,108	NS	13,543	NS	8,951	NS	8,666
W-102i	NS	51	NS	19	NS	50	NS	55	NS	31	NS	35	NS	38	NS	29
W-103i	NS	1,643	NS	1,437	NS	1,615	NS	1,450	NS	1,152	NS	1,740	NS	1,706	NS	1,525
W-104i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	4	NS	NS
W-106i	NS	4,039	NS	3,765	NS	2,741	NS	3,122	NS	2,337	NS	2,766	NS	1,791	NS	1,615
W-107i	NS	180	NS	126	NS	146	NS	115	NS	133	NS	125	NS	114	NS	75
W-110i	2,216	2,232	1,949	1,890	1,696	1,869	1,762	1,842	1,649	1,937	1,897	1,677	1,480	1,364	1,087	1,277
W-114i	5,885	8,564	8,668	10,728	12,251	9,166	4,732	12,280	13,042	13,006	13,307	15,563	15,417	15,558	13,810	13,888
W-116i	NS	48	NS	NS	NS	48	NS	NS	NS	46	NS	NS	NS	58	NS	NS
W-117i	NS	1,603	NS	2,656	NS	1,490	NS	1,174	NS	2,570	NS	2,403	NS	3,180	NS	2,717
W-120i	NS	520	NS	846	NS	802	NS	691	NS	724	NS	735	NS	730	NS	974
W-121i	NS	151	NS	198	NS	198	NS	214	NS	212	NS	219	NS	207	NS	189
W-122i	NS	76	NS	81	NS	75	NS	78	NS	79	NS	79	NS	69	NS	70
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	NS	2	NS	2	NS	1	NS	2	NS	5	NS	19	NS	1	NS	1
OW 9d	NS	89	NS	92	NS	101	NS	90	NS	94	NS	113	NS	108	NS	122

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

NS	ND	NS	ND	NS	NS	NS										
NS	NS	NS	NS													
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	55	NS	7.0	NS	NS	NS										
NS	NS	NS	NS													
NS	NS	NS	NS													
NS	ND	NS	ND	NS	NS	NS										

NS	ND	NS	ND	NS	NS	NS										
NS	33	NS	20	NS	14	NS	13	NS	8.7	NS	18	NS	19	NS	12	NS
NS	9,712	NS	10,485	NS	9,077	13,070	10,697	9,918	11,365	NS	9,362	NS	10,920	NS	10,881	NS
NS	17	NS	5.0	NS	ND	NS	12	NS	49	NS	ND	NS	ND	NS	NS	NS
NS	74	NS	60	NS	38	NS	58	NS	13	NS	50	NS	58	NS	51	NS
NS	ND	NS	ND	NS	2.3	NS	ND	NS								
NS	964	NS	2,130	NS	1,282	1,099	766	1,023	842	NS	540	NS	528	NS	569	NS
NS	385	NS	342	NS	301	NS	271	NS	251	NS	255	NS	189	NS	222	NS
NS	4,514	NS	4,737	NS	4,243	4,027	4,519	5,373	4,287	NS	4,697	NS	3,964	NS	4,188	NS
NS	NS															
NS	16,203	NS	14,214	NS	12,665	11,646	8,797	11,389	7,925	NS	13,694	NS	9,456	NS	11,519	NS
NS	39	NS	33	NS	25	NS	29	NS	43	NS	35	NS	32	NS	19	NS
NS	1,411	NS	1,527	NS	1,170	1,307	1,422	1,527	1,523	NS	1,455	NS	1,552	NS	1,548	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	1.6	NS	NS	NS
NS	2.3	NS	NS	NS	3.6	NS	NS	NS	4.4	NS	NS	NS	3.0	NS	NS	NS
NS	984	NS	934	NS	1,005	NS	832	NS	457	NS	661	NS	485	NS	1,059	NS
NS	102	NS	82	NS	89	NS	105	NS	80	NS	60	NS	84	NS	61	NS
1,483	1,376	1,296	1,251	1,719	2,082	1,911	2,335	1,675	1,755	1,722	1,493	1,342	1,252	1,147	1,151	1,006
13,165	11,996	15,103	15,210	14,154	13,082	14,401	12,620	14,549	15,805	14,076	13,252	12,030	14,097	12,734	13,189	6,471
NS	68	NS	NS	NS	100	NS	NS	NS	80	NS	NS	NS	71	NS	NS	NS
NS	3,500	NS	3,636	NS	2,854	NS	3,410	NS	3,267	NS	2,862	NS	2,578	NS	3,763	NS
NS	492	NS	803	NS	1,219	NS	1,206	NS	790	NS	831	NS	492	NS	696	NS
NS	191	NS	173	NS	191	NS	199	NS	197	NS	231	NS	208	NS	225	NS
NS	92	NS	102	NS	100	NS	91	NS	88	NS	79	NS	67	NS	89	NS
NS	NS															
NS	NS															
NS	1.2	NS	6.8	NS	ND	NS	7.2	NS	6.9	NS	7.0	NS	7.6	NS	ND	NS
NS	102	NS	108	NS	95	73	91	99	90	NS	94	NS	73	NS	92	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Analytical Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Upper Unconfined System										
K2s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K4s	NS									
K4sR	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K12s	155	NS	NS	NS	9.0	NS	NS	NS	1.2	NS
K14s	NS									
K14sR	NS									
K32s	18	NS	NS	NS	5.6	NS	NS	NS	4.3	NS
Lower Unconfined System										
W-5d	8.4	NS	NS	NS	8.7	NS	NS	NS	5.1	NS
W-6d	12	NS	19	NS	13	NS	8.5	NS	20	NS
W-7d	9,542	NS	9,906	NS	8,927	NS	10,484	NS	NS	NS
W-13d	ND	NS	ND	NS	NS	NS	ND	NS	ND	NS
W-15d	56	NS	46	NS	45	NS	39	NS	51	NS
W-16d	1.5	NS	1.4	NS	3.4	NS	ND	NS	1.3	NS
W-17d	977	NS	1,260	NS	1,201	NS	1,471	NS	2,200	NS
W-23d	151	NS	152	NS	124	NS	117	NS	113	NS
W-26d	3,595	NS	2,729	NS	2,504	NS	2,878	NS	3,108	NS
W-28d	NS									
W-101i	10,047	NS	11,283	NS	9,279	NS	7,866	NS	1,459	NS
W-102i	28	NS	23	NS	19	NS	6.4	NS	9.8	NS
W-103i	1,547	NS	1,556	NS	1,306	NS	1,148	NS	1,386	NS
W-104i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-105i	ND	NS	NS	NS	1.4	NS	NS	NS	2.4	NS
W-106i	857	NS	1,504	NS	1,368	NS	1,553	NS	1,737	NS
W-107i	57	NS	54	NS	52	NS	55	NS	83	NS
W-110i	916	940	857	872	969	796	744	901	1,055	929
W-114i	2,878	2,390	2,332	3,554	2,250	2,079	5,127	8,722	7,900	10,797
W-116i	77	NS	NS	NS	121	NS	NS	NS	151	NS
W-117i	3,350	NS	3,024	NS	3,091	NS	2,032	NS	2,659	NS
W-120i	627	NS	645	NS	854	NS	761	NS	1,080	NS
W-121i	242	NS	241	NS	246	NS	235	NS	229	NS
W-122i	98	NS	82	NS	121	NS	116	NS	106	NS
W-126i	NS									
W-127i	NS									
OW 3	8.0	NS	ND	NS	ND	NS	ND	NS	ND	NS
OW 9d	75	NS	65	NS	75	NS	NS	NS	339	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Lower Unconfined System																
OW 12	19,394	21,138	13,514	44,945	14,005	13,187	12,717	11,420	10,656	7,673	9,511	9,484	9,630	8,164	5,173	5,146
OW 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	735	4,582	5,269	NS	6,353	6,505	6,828
OW 16	1,281	104	310	36	309	281	135	107	39	94	61	50	45	82	109	125
OW 23	23,902	23,160	28,170	17,336	37,138	37,939	14,529	11,027	8,124	5,909	3,493	3,491	1,941	1,454	737	731
OW 29	210	NS														
MW-33i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	34	26	7	10	8	8	ND	6	ND	NS	NS	NS	ND	NS	NS	NS
MW-38i	NS	NS	NS	NS	NS	NS	NS	NS	NS	24	44	19	NS	32	17	21
K3d	NS	NS	NS	NS	NS	NS	NS	NS	NS	27	23	ND	NS	9	10	ND
K5d	156	NS	ND	9	31	28	2	ND	19	NS	NS	NS	8	NS	NS	NS
K5dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K13d	NS	29	17	20	6	9	ND	ND	7	NS	NS	NS	36	NS	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,123	2,622	3,138	NS	2,854	3,025	3,922
K31d	NS	37	7	15	15	7	4	15	9	ND	28	ND	ND	ND	ND	ND
TWA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,825	2,736	NS	2,294	2,650	2,378
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19	ND	NS	22	NS	NS
UW1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5,338	5,667	NS	6,374	6,240	4,904
Confined System																
W-35d	NS	NS	NS	NS	NS	NS	NS	NS	NS	17	10	9	NS	18	14	15
W-101d	31,896	18,474	21,827	26,923	14,259	13,718	13,858	20,725	19,195	32,104	17,051	16,731	23,966	19,089	17,433	15,933
W-102d	85	44	20	98	4	4	ND	ND	28	3	ND	ND	ND	ND	ND	ND
W-123d	40	15	ND	ND	12	23	1	5	8	NS	NS	NS	ND	NS	NS	NS
W-124d	214	688	253	188	580	421	274	263	183	232	292	306	324	277	277	244
MW-12d	35	62	11	25	16	6	ND									
MW-16d	ND	ND	ND	1	7	4	ND	12	10	NS	NS	NS	ND	NS	NS	NS
MW-23d	92	24	18	124	13	6	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-33d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	8	NS	NS
MW-34d	NS	21	5	13	5	8	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38d	NS	NS	NS	NS	NS	NS	NS	NS	NS	59	NS	NS	NS	16	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND No compounds were detected in the sample from this well.																
NS Well was not sampled during the quarter indicated.																

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
5,817	4,762	5,380	6,984	5,128	3,442	4,290	6,213	3,658	741	3,212	NS	4,335	NS	1,105	NS	1,084
NS	7,200	6,224	5,122	NS	4,076	3,674	4,098	NS	3,215	2,877	NS	3,192	NS	2,984	NS	4,016
138	158	154	104	67	64	52	48	17	1	22	NS	48	NS	266	NS	173
437	653	649	626	464	443	357	343	335	334	324	NS	233	NS	115	NS	208
NS																
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	10	9	5	NS	10	13	10	NS	12	10	NS	4	NS	5	NS	5
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	12	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	5	NS							
NS	ND	NS	ND	NS	NS											
8	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	70	NS														
NS	ND	NS	ND	NS	NS											
NS	3,205	3,642	3,601	NS	3,149	3,793	3,430	NS	3,528	3,129	NS	3,376	NS	14,522	NS	7,967
ND	56	NS	NS	NS	52	NS	NS									
NS	2,178	1,898	942	NS	539	525	537	NS	287	327	NS	256	NS	177	NS	257
NS																
NS	3,646	3,875	4,878	NS	5,740	8,562	13,257	NS	16,397	11,800	NS	13,938	NS	43,848	NS	13,176

NS	12	18	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
15,056	18,057	20,966	23,229	24,593	22,717	26,694	23,374	27,231	24,918	29,516	NS	30,087	NS	42,901	NS	26,525
ND	NS	ND	NS	ND	NS	ND										
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
201	200	189	141	133	97	84	106	82	65	98	NS	76	NS	121	NS	137
ND	144	ND	ND	NS	NS	NS	ND	NS	NS							
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	NS	NS	NS	NS									

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Lower Unconfined System																
OW 12	NS	912	NS	1,548	NS	1,017	NS	823	NS	1,620	NS	2,317	NS	2,366	NS	1,089
OW 14	NS	3,452	NS	3,004	NS	2,229	NS	2,127	NS	1,693	NS	1,961	NS	1,830	NS	1,883
OW 16	NS	90	NS	61	NS	94	NS	49	NS	39	NS	47	NS	41	NS	39
OW 23	NS	196	NS	117	NS	115	NS	112	NS	76	NS	94	NS	66	NS	74
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	15	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	NS	11	NS	NS	NS	ND	NS	NS	NS	8	NS	NS	NS	ND	NS	NS
MW-38i	NS	3	NS	3	NS	9	NS	8	NS	11	NS	9	NS	9	NS	6
K3d	NS	8	NS	NS	NS	8	NS	NS	NS	14	NS	NS	NS	15	NS	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	NS	ND	NS	NS	NS	8	NS	NS	NS	9	NS	NS	NS	10	NS	NS
K13d	NS	ND	NS	NS	NS	ND	NS	NS	NS	4	NS	NS	NS	ND	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	7,559	NS	6,944	NS	8,340	NS	8,966	NS	6,339	NS	5,145	NS	6,611	NS	4,822
K31d	NS	17	NS	NS	NS	88	NS	NS	NS	33	NS	NS	NS	61	NS	NS
TWA	NS	353	NS	150	NS	178	NS	236	NS	130	NS	259	NS	143	NS	230
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	NS	7,400	NS	8,518	NS	6,336	NS	6,565	NS	4,309	NS	5,634	NS	4,923	NS	5,056
Confined System																
W-35d	NS	5	NS	NS	NS	11	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-101d	NS	40,658	NS	28,141	NS	25,864	NS	27,964	NS	27,538	NS	27,268	NS	27,030	NS	26,086
W-102d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-123d	NS	8	NS	NS	NS	12	NS	NS	NS	15	NS	NS	NS	29	NS	NS
W-124d	NS	147	NS	147	NS	142	NS	176	NS	148	NS	197	NS	174	NS	188
MW-12d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-16d	NS	ND	NS	NS	NS	ND	NS	NS	NS	10	NS	NS	NS	ND	NS	NS
MW-23d	NS	ND	NS	NS	NS	3	NS	NS	NS	9	NS	NS	NS	13	NS	NS
MW-33d	NS	18	NS	NS	NS	ND	NS	NS	NS	4	NS	NS	NS	ND	NS	NS
MW-34d	NS	13	NS	NS	NS	ND	NS	NS	NS	5	NS	NS	NS	ND	NS	NS
MW-38d	NS	9	NS	NS	NS	ND	NS	NS	NS	8	NS	NS	NS	8	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-1
 Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	536	NS	430	NS	2,100	NS	1,089	NS	2,522	NS	697	NS	1,128	NS	601	NS
NS	1,987	NS	2,133	NS	1,464	1,160	1,386	1,302	1,597	NS	1,479	NS	1,002	NS	1,497	NS
NS	25	NS	23	NS	25	NS	38	NS	32	NS	32	NS	22	NS	35	NS
NS	45	NS	78	NS	49	NS	55	NS	89	NS	38	NS	36	NS	40	NS
NS																
NS	ND	NS	ND	NS	NS	18										
NS	ND	NS	NS	NS	ND	NS	NS	NS	5.9	NS	NS	NS	14	NS	NS	17
NS	7	NS	6.4	NS	4.8	NS	3.6	NS	3.5	NS	4.3	NS	2.7	NS	3.4	NS
NS	12	NS	NS	NS	9.8	NS	NS	NS	9.5	NS	NS	NS	25	NS	NS	NS
NS																
NS	14	NS	13	NS	NS	NS										
NS	ND	NS	NS	NS	ND	NS	NS	NS	5.2	NS	NS	NS	12	NS	NS	NS
NS																
NS																
NS	5,267	NS	5,085	NS	3,636	NS	2,939	NS	2,215	NS	2,041	NS	1,726	NS	1,528	NS
NS	33	NS	NS	NS	29	NS	NS	NS	7.7	NS	NS	NS	ND	NS	NS	NS
NS	123	NS	202	NS	132	NS	167	NS	133	NS	176	NS	136	NS	180	NS
NS																
NS	4,753	NS	3,994	NS	3,394	3,708	3,509	3,353	3,144	NS	3,269	NS	4,713	NS	2,840	NS

NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	17,179	NS	29,983	NS	32,254	28,173	28,880	33,771	28,503	NS	20,937	NS	29,625	NS	29,698	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	25	NS	NS	NS	30	NS	NS	NS	34	NS	NS	NS	32	NS	NS	NS
NS	192	NS	222	NS	178	180	232	214	257	NS	224	NS	192	NS	378	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	18	NS	NS	NS	ND	NS	NS	NS	18	NS	NS	NS	5.9	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	54	NS	NS	NS	23	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	6.2	NS	NS	NS	6.0	NS	NS	15
NS	ND	NS	NS	NS	5.8	NS	NS	NS	7.9	NS	NS	NS	3.7	NS	NS	70
NS	ND	NS	NS	NS	14	NS	NS	NS	7.1	NS	NS	NS	12	NS	NS	ND
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)									
	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Lower Unconfined System										
OW 12	848	NS	841	NS	1,480	NS	1,071	NS	1,492	NS
OW 14	1,035	NS	1,253	NS	1,479	NS	1,365	NS	1,153	NS
OW 16	40	NS	21	NS	21	NS	21	NS	18	NS
OW 23	33	NS	34	NS	32	NS	28	NS	30	NS
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	10	NS	3.6	NS	3.9	NS	NS	NS	ND	NS
MW-34i	8.9	7.2	ND	NS	6.5	NS	NS	NS	ND	NS
MW-38i	4.4	NS	23	NS	3.3	NS	3.0	NS	2.8	NS
K3d	50	NS	NS	NS	56	NS	NS	NS	33	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	19	2.1	NS	NS	NS	NS	NS	NS	ND	NS
K13d	64	NS	7.1	NS	6.5	NS	NS	NS	1.9	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	1,325	NS	1,142	NS	1,144	NS	2,036	NS	1,021	NS
K31d	ND	NS	NS	NS	3.0	NS	NS	NS	10	NS
TWA	143	NS	166	NS	145	NS	126	NS	643	NS
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	6,095	NS	2,310	NS	4,153	NS	1,891	NS	3,489	NS
Confined System										
W-35d	ND	NS	NS	NS	ND	NS	NS	NS	27	NS
W-101d	32,487	NS	30,898	NS	31,730	NS	31,905	NS	54,706	NS
W-102d	ND	NS	ND	NS	ND	NS	5.6	NS	ND	NS
W-123d	45	NS	NS	NS	46	NS	NS	NS	58	NS
W-124d	560	NS	611	NS	623	NS	593	NS	720	NS
MW-12d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-16d	5.9	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-23d	35	NS	NS	NS	4.4	NS	NS	NS	1.5	NS
MW-33d	23	NS	NS	NS	2.2	NS	NS	NS	ND	NS
MW-34d	52	NS	NS	NS	22	NS	NS	NS	ND	NS
MW-38d	37	18	3.8	NS	1.8	NS	NS	NS	6.6	NS
TWF	NS	NS	ND	NS						
ND No compounds were detected in the sample from this well. NS Well was not sampled during the quarter indicated.										

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Analyte Results (ug/L)																
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Extraction Wells																
EW-1	NS	NS	NS	1,085	1,166	899	840	885	637	444	658	663	551	474	406	380
EW-2	NS	NS	NS	9,572	7,797	7,142	6,976	2,911	6,634	4,889	5,149	5,758	5,648	5,180	4,617	4,926
EW-3	NS	NS	NS	20,078	18,308	16,241	14,312	7,912	6,945	626	6,131	7,316	5,813	3,872	5,144	4,450
EW-4	NS	NS	NS	582	989	632	848	1,134	1,050	2,326	4,839	6,442	8,997	8,921	8,406	8,566
EW-5	NS	NS	NS	962	1,113	923	537	1,141	824	749	1,141	1,149	1,261	1,142	1,208	1,434
EW-6	NS	NS	NS	558	670	NS	NS	NS	571	655	760	738	865	638	585	828
EW-6a	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-7	NS	NS	NS	317	212	464	ND	206	184	152	165	156	197	177	157	188
EW-8	NS	NS	NS	33,955	39,402	26,464	29,236	32,807	33,413	28,931	31,032	27,016	28,958	23,703	25,345	26,220
EW-9	NS	NS	NS	1,803	1,848	1,719	1,551	1,357	1,323	1,146	1,493	1,638	1,413	1,634	1,473	1,672
EW-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	23,324
EW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	No compounds were detected in the sample from this well.															
NS	Well was not sampled during the quarter indicated.															

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
260	297	303	232	225	164	149	187	154	107	186	181	116	100	95	101	82
3,308	3,663	4,119	3,616	1,980	2,856	2,319	2,869	2,535	2,756	2,848	2,230	2,030	1,796	1,647	1,723	1,810
2,703	3,222	3,179	3,123	1,589	2,103	2,044	1,711	1,781	1,391	2,273	1,804	1,462	1,127	1,321	1,565	1,541
5,695	6,768	7,390	6,023	6,252	6,646	6,828	5,501	5,952	4,855	5,523	5,647	3,732	3,281	4,057	4,148	3,571
1,339	2,063	2,166	2,190	2,593	2,574	2,726	3,088	2,965	2,644	3,465	3,656	3,882	4,005	5,308	4,784	4,218
454	669	749	NS													
NS	NS	NS	590	576	538	466	551	440	465	538	538	165	524	1,080	952	1,055
152	158	151	143	140	119	125	130	110	97	113	106	118	93	166	190	175
25,761	23,803	25,240	23,805	20,886	22,286	18,218	16,728	13,488	10,547	11,980	13,606	8,164	9,794	16,942	10,698	9,929
1,514	674	1,844	1,594	1,445	1,356	1,187	1,428	1,574	574	1,517	1,341	1,375	1,156	1,326	1,501	1,382
16,075	14,822	16,245	15,906	12,204	12,945	12,339	13,061	16,196	9,911	9,626	10,312	7,701	7,612	8,529	6,916	7,934
NS	NS	NS	NS	NS	NS	7,662	7,520	9,608	8,402	9,255	11,297	8,787	8,943	10,898	8,644	7,962

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Analyte Results (ug/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Extraction Wells																
EW-1	88	75	84	72	58	77	74	72	69	74	79	87	71	71	58	37
EW-2	1,708	1,716	1,657	1,724	1,772	1,437	1,616	1,566	1,536	1,553	1,596	1,753	1,580	1,527	1,228	1,313
EW-3	1,220	1,589	1,595	1,515	1,693	1,626	1,465	1,686	1,803	1,679	1,556	1,841	1,859	1,588	1,418	1,430
EW-4	4,028	4,111	3,455	3,641	3,895	3,353	3,334	3,535	3,653	3,125	3,347	3,932	4,099	3,394	3,490	3,253
EW-5	3,416	2,892	3,901	2,337	2,630	3,032	3,446	2,965	2,240	1,902	2,602	2,351	2,245	1,574	2,389	1,671
EW-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-6a	907	1,045	1,303	1,051	996	876	1,165	1,107	775	986	931	1,176	982	834	949	1,000
EW-7	186	150	166	168	145	149	182	181	143	136	175	185	154	161	192	213
EW-8	9,356	9,494	9,908	9,813	9,025	8,283	8,322	8,005	7,182	7,534	7,083	7,704	7,493	6,607	6,414	5,448
EW-9	1,382	1,357	1,408	1,402	1,243	1,287	1,400	1,461	1,372	1,292	1,478	1,375	1,233	1,156	1,296	1,281
EW-10	6,955	6,124	6,720	5,737	5,255	4,444	4,977	3,945	4,350	3,602	4,687	4,455	4,580	4,736	4,374	3,849
EW-11	7,202	6,972	7,698	6,805	7,030	6,956	6,289	5,868	5,648	5,259	4,984	5,035	4,766	5,229	5,297	4,955
ND	No compounds were detected in the sample from this well.															
NS	Well was not sampled during the quarter indicated.															

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
44	40	34	32	37	28	31	24	38	46	40	35	30	44	31	30	33
1,353	1,248	1,294	1,135	1,301	1,196	1,307	1,223	1,171	1,061	1,017	902	872	987	945	874	716
1,542	1,447	1,631	1,457	1,528	1,384	1,691	1,546	1,532	961	1,284	1,052	908	1,131	730	858	785
3,340	3,210	3,497	3,710	3,319	3,397	3,613	3,160	2,893	2,694	2,605	2,921	2,382	2,549	2,017	2,130	2,145
1,591	1,358	1,959	1,784	1,409	1,242	840	874	937	973	1,631	1,923	1,530	2,085	1,588	2,100	1,779
NS																
814	604	822	860	645	1,043	1,111	1,114	853	483	663	754	590	442	428	451	591
208	194	214	199	192	202	190	196	184	140	126	105	112	152	146	150	154
5,657	4,913	5,115	4,600	4,304	4,610	5,001	4,882	4,268	4,539	6,462	4,335	3,942	4,416	4,299	4,216	4,205
1,335	1,309	1,408	1,254	1,203	1,131	1,289	1,296	1,142	1,235	765	1,008	1,302	1,314	1,209	1,308	1,197
3,705	4,038	4,116	3,767	3,591	3,487	3,785	3,125	2,723	2,631	3,480	2,894	2,307	2,378	2,257	2,317	1,944
4,903	4,911	4,364	5,222	5,333	5,056	5,300	5,941	4,703	4,714	814	3,958	3,245	3,975	3,563	3,880	3,110

Table 5-2
 Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Analyte Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-13	Dec-14
Extraction Wells										
EW-1	41	38	29	34	35	42	33	34	40	43
EW-2	877	757	770	756	872	771	760	832	895	872
EW-3	779	768	706	867	1,113	1,007	865	1,030	820	1,017
EW-4	2,039	1,929	1,911	1,887	2,112	1,820	1,761	1,616	1,833	1,620
EW-5	2,014	2,022	1,715	1,297	1,770	1,541	1,397	1,380	1,437	1,671
EW-6	NS	NS	592	593	NS	NS	NS	NS	685	612
EW-6a	594	389	550	708	696	687	644	775	NS	NS
EW-7	166	174	153	140	124	133	126	107	89	118
EW-8	4,353	4,408	4,103	3,840	3,733	3,356	3,882	3,756	3,498	4,297
EW-9	1,213	1,150	1,136	1,267	1,137	1,023	1,085	836	854	742
EW-10	2,124	2,005	1,885	1,779	1,891	1,869	1,865	1,662	1,783	1,702
EW-11	3,623	3,201	2,853	2,944	3,047	2,695	2,958	2,346	2,697	2,066

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical ResNDIts (NDg/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-7s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-15s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-16s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	ND	ND
W-17s	NS	NS	NS	NS	NS	NS	NS	NS	NS	1	2	ND	NS	ND	ND	ND
W-18s	NS	NS	NS	NS	NS	NS	NS	NS	NS	57	120	260	NS	79	130	130
W-26s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-101s	180	160	190	240	250	200	450	280	190	260	290	250	220	210	200	ND
W-102s	330	320	380	480	350	210	300	720	390	390	390	320	290	280	250	210
W-103s	17	42	5	8.6	89	81	42	31	92	100	39	60	73	75	79	96
W-104s	4.2	5	1	1.6	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-105s	ND	29	4.5	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-106s	7.4	ND	3.4	2.4	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-107s	ND	ND	14	2.9	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-110s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-114s	ND	1.7	ND	NS	NS	NS	ND	NS	NS	NS						
W-116s	1.4	1.7	ND	NS	NS	NS	ND	NS	NS	NS						
W-117s	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	NS	NS	NS
W-120s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-121s	1.1	ND	NS	NS	NS	ND	NS	NS	NS							
W-122s	ND	1.5	ND	NS	NS	NS	ND	NS	NS	NS						
W-123s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124s	3,300	1,900	3,000	2,700	2,700	500	3,400	690	870	1,100	650	490	450	550	570	130
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4,400	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS
MW-12s	ND	4.7	2.3	1.7	7.4	7	ND									
MW-16s	ND	26	13	2.2	2.3	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23s	ND	9	3.2	1.6	120	2.2	13	ND	ND	1.2	ND	ND	ND	ND	ND	3
MW-33s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	ND	1.3	ND	NS	NS	NS	ND	NS	NS	NS						
MW-38s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-3
 Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS																
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	NS	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	12	ND	ND	NS	ND	ND	11	NS	ND	ND	NS	14	NS	34	NS	23
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
NS																
79	140	230	360	250	290	260	280	280	230	93	NS	160	NS	330	NS	170
200	110	180	160	130	95	110	120	110	83	120	NS	110	NS	87	NS	98
85	57	110	92	58	35	44	47	24	16	13	NS	22	NS	14	NS	30
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
79	640	170	97	550	1,100	530	340	590	530	360	NS	110	NS	180	NS	270
NS																
NS																
ND	NS	ND	NS	ND	NS	ND										
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
37	11	9.4	27	9.4	8.2	8.1	17	19	7.5	3.5	NS	8.4	NS	1.8	NS	1.1
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Analytical ResNDIts (NDg/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
W-3	NS															
W-5s	NS															
W-6s	NS															
W-7s	NS	ND	NS	NS												
W-13s	NS															
W-15s	NS	ND														
W-16s	NS	ND	NS	NS												
W-17s	NS	ND														
W-18s	NS	20	NS	ND	NS	ND	NS	ND	NS	25	NS	ND	NS	87	NS	54
W-26s	NS	ND	NS	NS												
W-28s	NS															
W-29s	NS															
W-101s	NS	120	NS	110	NS	100	NS	130	NS	68	NS	64	NS	70	NS	80
W-102s	NS	65	NS	110	NS	95	NS	98	NS	78	NS	31	NS	41	NS	31
W-103s	NS	19	NS	11	NS	10	NS	12	NS	12	NS	17	NS	10	NS	9.4
W-104s	NS	ND	NS	NS												
W-105s	NS	ND	NS	NS												
W-106s	NS	ND	NS	NS												
W-107s	NS	ND	NS	NS												
W-110s	NS	ND	NS	NS												
W-114s	NS	ND	NS	NS												
W-116s	NS	ND	NS	NS												
W-117s	NS	ND	NS	NS												
W-120s	NS	ND	NS	NS												
W-121s	NS	ND	NS	NS												
W-122s	NS	ND	NS	NS												
W-123s	NS	ND	NS	NS												
W-124s	NS	270	NS	230	NS	190	NS	220	NS	160	NS	130	NS	70	NS	130
W-126s	NS															
W-127s	NS															
MW-12s	NS	ND														
MW-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	3.1
MW-23s	NS	5.1	NS	9.3	NS	3.5	NS	6.8	NS	ND	NS	2.1	NS	1.8	NS	NS
MW-33s	NS	ND	NS	NS												
MW-34s	NS	ND	NS	NS												
MW-38s	NS	ND	NS	NS												

Table 5-3
 Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS																
NS																
NS																
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS
NS																
NS	ND	NS														
NS	ND	NS	ND	NS	ND	NS										
NS	ND	NS														
NS	41	NS	34	NS	ND	ND	36	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS												
NS																
NS																
NS	46	NS	28	NS	20	16	ND	16	15	NS	ND	NS	12	NS	ND	NS
NS	35	NS	26	NS	25	32	31	36	40	NS	34	NS	34	NS	32	NS
NS	7.5	NS	5.7	NS	9.1	NS	4.7	NS	4.6	NS	7.4	NS	4.8	NS	3.7	NS
NS	ND	NS	ND	NS	NS	NS										
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	96	NS	97	NS	110	65	72	72	60	NS	73	NS	79	NS	57	NS
NS																
NS																
NS	ND	NS														
NS	ND	NS	NS	NS	ND	NS	ND	NS	ND	NS	ND	NS	6	NS	22	NS
NS	1.9	NS	1.0	NS	ND	NS	ND	NS	ND	NS	3.3	NS	6.4	NS	5	NS
NS	ND	NS	ND	NS	NS	ND	NS									
NS	ND	NS	ND	NS	NS	ND	NS									
NS	ND	NS	ND	NS	NS	ND	NS									

Table 5-3
 Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)									
	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Upper Unconfined System										
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-16s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-17s	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-18s	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-26s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	ND	NS	10	NS	ND	NS	ND	NS	ND	NS
W-102s	43	NS	25	NS	31	NS	22	NS	29	NS
W-103s	5.2	NS	3.6	NS	3.1	NS	1.6	NS	2.3	NS
W-104s	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
W-105s	ND	ND	NS	NS	ND	NS	NS	NS	ND	NS
W-106s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-107s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-110s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-114s	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
W-116s	ND	ND	NS	NS	ND	NS	NS	NS	ND	NS
W-117s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-120s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-121s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-122s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-123s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-124s	60	NS	42	NS	47	NS	48	NS	27	NS
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	ND	NS						
MW-12s	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
MW-16s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-23s	11	NS	NS	NS	1.7	NS	5.0	NS	ND	NS
MW-33s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-34s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-38s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical ResNDIts (NDg/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
K2s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4s	1.4	ND														
K4sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K12s	NS	ND	NS	NS	NS	ND	NS	NS	NS							
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS							
Lower Unconfined System																
W-5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	73	51	44	NS	ND	59
W-13d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND
W-15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.4	ND	ND	NS	1.2	ND
W-16d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	ND
W-17d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	2	1	NS	ND	ND
W-23d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	220	130	140	NS	110	140
W-26d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	69	ND	60	NS	ND	ND
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS
W-101i	110	43	200	280	300	300	87	260	240	250	180	160	190	170	150	140
W-102i	2.8	ND	ND	1	ND											
W-103i	12	44	63	76	140	140	56	94	60	79	50	150	160	180	150	110
W-104i	ND	3.6	ND													
W-105i	160	11	ND													
W-106i	610	2,200	210	710	1,600	520	710	950	500	780	630	390	300	190	190	340
W-107i	150	170	460	340	350	170	120	76	69	58	85	75	83	60	54	58
W-110i	24	37	26	13	60	51	48	36	40	32	31	33	37	30	30	27
W-114i	57	160	19	38	110	140	130	110	190	230	190	210	200	230	220	200
W-116i	2.1	11	ND													
W-117i	19	56	6.3	12	43	78	84	110	NS	120	180	150	160	110	140	68
W-120i	10	41	5.6	6	29	27	27	25	22	20	18	22	22	21	20	16
W-121i	7	24	9.5	2.3	14	12	12	10	9.6	6.2	8	9.6	10	9	8.6	8.2
W-122i	ND	7.8	ND	120	ND	ND	2	ND								
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12	NS
OW 3	ND	3	ND	NS	NS	NS	ND	NS	NS	NS						
OW 9d	ND	ND	ND	ND	ND	15	21	27	ND	75	ND	ND	ND	ND	ND	ND

Table 5-3
 Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS															
NS	ND	NS	ND	NS	ND	NS	NS									
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS														
NS	ND	NS	ND	NS	NS											
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS

NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	43	55	52	NS	56	40	40	NS	43	33	NS	25	NS	41	NS	43
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	4	1.4	1.7	NS	1.4	1.4	1.4	NS	1.9	1.1	NS	1.4	NS	1.9	NS	1.4
NS	100	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	1.3	NS	ND	NS	ND
NS	2	2	3	NS	1	ND	ND	NS	ND	2	NS	1	NS	9	NS	8
NS	61	89	56	NS	74	87	100	NS	20	130	NS	75	NS	67	NS	51
NS	43	43	46	NS	35	37	39	NS	31	31	NS	30	NS	28	NS	28
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
170	140	170	170	150	150	160	140	140	130	130	NS	120	NS	160	NS	120
ND	NS	ND	NS	ND	NS	ND										
56	41	41	42	32	30	35	29	32	28	38	NS	28	NS	24	NS	29
ND	NS	NS	NS	ND	NS	NS										
ND	NS	NS	NS	ND	NS	NS										
690	580	410	530	500	410	420	550	630	370	490	NS	370	NS	420	NS	340
87	72	69	43	48	52	49	44	41	43	35	NS	30	NS	29	NS	24
25	22	25	24	21	23	24	27	23	20	19	NS	17	19	17	55	18
160	200	210	320	300	440	490	650	560	940	440	NS	250	200	120	110	430
ND	NS	NS	NS	ND	NS	NS										
120	130	140	38	33	36	49	37	32	80	68	NS	30	NS	40	NS	33
16	13	15	13	11	14	15	15	6.6	14	16	NS	13	NS	16	NS	12
7.7	7.9	7.4	7.4	6.5	6.7	6.7	7.2	6.3	5.6	5.5	NS	5.1	NS	4.9	NS	5.4
1.5	1.2	ND	1	ND	ND	ND	ND	ND	ND	1	NS	1.8	NS	2.5	NS	2.5
NS	NS	NS	NS	NS	NS	NS										
NS	NS	NS	NS	NS	NS	NS										
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS	ND
ND	NS	ND	NS	ND	NS	ND										

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical ResNDIts (NDg/L)															
	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
K2s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K12s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	ND	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
Lower Unconfined System																
W-5d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-7d	NS	50	NS	36	NS	33	NS	32	NS	29	NS	5	NS	19	NS	21
W-13d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-15d	NS	1.5	NS	ND	NS	ND	NS	ND	NS	1.1	NS	2.9	NS	1.3	NS	ND
W-16d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-17d	NS	9.8	NS	9.1	NS	20	NS	15	NS	3.5	NS	ND	NS	ND	NS	1.1
W-23d	NS	50	NS	40	NS	29	NS	26	NS	20	NS	19	NS	15	NS	21
W-26d	NS	23	NS	23	NS	28	NS	27	NS	22	NS	21	NS	21	NS	19
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	NS	120	NS	150	NS	170	NS	190	NS	220	NS	190	NS	310	NS	120
W-102i	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-103i	NS	32	NS	32	NS	29	NS	29	NS	31	NS	29	NS	28	NS	27
W-104i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106i	NS	290	NS	410	NS	360	NS	390	NS	310	NS	310	NS	240	NS	210
W-107i	NS	35	NS	24	NS	24	NS	24	NS	22	NS	21	NS	25	NS	15
W-110i	17	15	13	13	12	11	11	10	10	9	10	10	10	8.9	7.0	6.6
W-114i	630	840	630	910	1,100	840	500	1,100	1,100	1,100	1,300	1,200	1,100	1,200	1,200	1,100
W-116i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117i	NS	87	NS	190	NS	91	NS	37	NS	170	NS	120	NS	150	NS	120
W-120i	NS	12	NS	12	NS	13	NS	14	NS	13	NS	12	NS	9.8	NS	12
W-121i	NS	5.5	NS	7.2	NS	7	NS	7.4	NS	4.6	NS	6.8	NS	6.4	NS	5.4
W-122i	NS	2.3	NS	2.6	NS	2.4	NS	2.6	NS	2.6	NS	2.7	NS	2.4	NS	2.2
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 9d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	ND	NS	ND	NS	NS	NS										
NS																
NS	ND	NS	NS	NS												
NS	ND	NS	ND	NS	NS	NS										
NS																
NS																
NS	ND	NS	ND	NS	NS	NS										

NS	ND	NS	NS	NS	NS	NS	ND	NS	NS	NS						
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	38	NS	27	NS	27	27	28	32	28	NS	33	NS	43	NS	33	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	1.4	NS	1.7	NS	1.4	NS	1.8	NS	1.1	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	3.1	NS	4.1	NS	1.3	1.0	1.9	1.2	2.0	NS	ND	NS	ND	NS	ND	NS
NS	17	NS	18	NS	12	NS	19	NS	16	NS	8.7	NS	8.1	NS	20	NS
NS	20	NS	15	NS	17	16	16	17	16	NS	19	NS	15	NS	13	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS								
NS	190	NS	170	NS	160	140	150	180	130	NS	160	NS	120	NS	130	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	34	NS	27	NS	32	44	26	29	28	NS	38	NS	45	NS	47	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	100	NS	62	NS	56	NS	54	NS	40	NS	94	NS	36	NS	96	NS
NS	23	NS	17	NS	18	NS	21	NS	18	NS	17	NS	16	NS	15	NS
7.4	8.7	7.2	8.0	7.2	7.8	6.0	6.5	5.0	6.4	5.1	5.1	4.2	3.8	3.3	3.8	3.7
1,200	1,400	1,300	1,200	1,200	1,200	1,200	1,000	1,100	940	980	1,000	900	890	810	860	530
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	140	NS	86	NS	62	NS	81	NS	64	NS	67	NS	77	NS	100	NS
NS	13	NS	14	NS	16	NS	20	NS	17	NS	13	NS	11	NS	16	NS
NS	6.9	NS	7.0	NS	7.4	NS	8.4	NS	8.3	NS	8.8	NS	ND	NS	7.8	NS
NS	2.9	NS	3.2	NS	2.9	NS	ND	NS	2.8	NS	3.1	NS	ND	NS	2.7	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS								
NS	NS	NS	NS	NS	NS	NS	NS	NS								
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)									
	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Upper Unconfined System										
K2s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K12s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	0	NS	NS	NS	ND	NS	NS	NS	ND	NS
Lower Unconfined System										
W-5d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-6d	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-7d	21	NS	29	NS	24	NS	27	NS	NS	NS
W-13d	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-15d	ND	NS	ND	NS	1.9	NS	ND	NS	ND	NS
W-16d	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-17d	3.3	NS	4.2	NS	7.0	NS	6.3	NS	11	NS
W-23d	28	NS	25	NS	34	NS	23	NS	24	NS
W-26d	12	NS	11	NS	9.3	NS	8.4	NS	9.8	NS
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	130	NS	20	NS	130	NS	120	NS	63	NS
W-102i	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-103i	33	NS	30	NS	ND	NS	18	NS	9.6	NS
W-104i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-105i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-106i	73	NS	150	NS	160	NS	170	NS	190	NS
W-107i	14	NS	15	NS	14	NS	13	NS	15	NS
W-110i	4.0	3.6	3.3	3.7	3.5	3.7	3.6	3.6	3.6	3.4
W-114i	340	280	240	320	220	210	400	450	480	690
W-116i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-117i	130	NS	150	NS	150	NS	110	NS	120	NS
W-120i	13	NS	13	NS	12	NS	14	NS	19	NS
W-121i	7.2	NS	7.1	NS	7.3	NS	7.4	NS	7.6	NS
W-122i	3.2	NS	2.9	NS	3.2	NS	3.2	NS	3.1	NS
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
OW 9d	ND	NS	ND	NS	ND	NS	ND	NS	3.1	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical ResNDItS (NDg/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Lower Unconfined System																
OW 12	330	160	190	ND	120	190	180	160	120	150	150	190	140	130	99	83
OW 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.6	69	80	NS	170	160	140
OW 16	32	9.4	23	3.7	19	24	16	12	5.2	9.6	5.1	5.4	4.4	5	6.5	6.1
OW 23	8,300	3,800	2,800	1,900	9,900	10,000	1,300	750	450	540	260	160	52	280	180	120
OW 29	ND	NS														
MW-33i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	1.4	ND	NS	NS	NS	ND	NS	NS	NS							
MW-38i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K3d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K5d	10	NS	ND	1.1	ND	1	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K5dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K13d	NS	ND	NS	NS	NS	ND	NS	NS	NS							
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	51	33	37	NS	33	ND	ND
K31d	NS	14	ND													
TWA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	45	NS	66	79	81
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	NS	NS
UW1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	36	47	NS	48	43	ND
Confined System																
W-35d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-101d	7	5	5	17	ND	ND	ND	ND	ND	48	ND	ND	ND	ND	ND	ND
W-102d	1.2	ND														
W-123d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124d	16	57	18	24	40	34	27	24	23	26	24	21	15	16	18	13
MW-12d	3.7	1.8	1.6	ND	3.1	1.4	ND									
MW-16d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23d	1	6.8	ND	9	2.1	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-33d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34d	NS	ND	NS	NS	NS	ND	NS	NS	NS							
MW-38d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND No compounds were detected in the sample from this well.																
NS Well was not sampled during the quarter indicated.																

Table 5-3
 Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
89	60	46	66	39	40	53	55	47	19	27	NS	57	NS	10	NS	17
NS	160	180	58	NS	46	46	50	NS	67	43	NS	43	NS	42	NS	46
9.1	8	8.5	6.4	3.5	4	4	2.5	2.2	1.4	2.1	NS	2.2	NS	1.9	NS	1.3
47	33	31	22	14	13	10	7.7	7.1	5.8	6.3	NS	3.8	NS	3.8	NS	2.9
NS																
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS							
NS	ND	NS	ND	NS	NS											
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS														
NS	ND	NS	ND	NS	NS											
NS	30	29	32	NS	28	29	27	NS	29	23	NS	15	NS	21	NS	18
ND	NS	NS	NS	ND	NS	NS										
NS	49	50	12	NS	3.6	3.8	3.4	NS	2.4	2.1	NS	1.7	NS	1.6	NS	1
NS																
NS	ND	21	25	NS	23	23	29	NS	35	34	NS	31	NS	37	NS	26

NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
12	10	9.2	8.1	7.4	6.5	5.8	6.5	6	5.2	6.6	NS	6	NS	8.6	NS	7.7
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Analytical ResNDIts (NDg/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Lower Unconfined System																
OW 12	NS	15	NS	22	NS	11	NS	9.9	NS	10	NS	34	NS	28	NS	20
OW 14	NS	38	NS	51	NS	34	NS	34	NS	30	NS	44	NS	28	NS	30
OW 16	NS	1.3	NS	ND												
OW 23	NS	2.6	NS	1.6	NS	1.7	NS	1.5	NS	1.4	NS	1.2	NS	ND	NS	ND
OW 29	NS															
MW-33i	NS	ND	NS	NS												
MW-34i	NS	ND	NS	NS												
MW-38i	NS	ND														
K3d	NS	ND	NS	NS												
K5d	NS															
K5dR	NS	ND	NS	NS												
K13d	NS	ND	NS	NS												
K15d	NS															
K15dR	NS															
K28d	NS	16	NS	12	NS	10	NS	7	NS	6	NS	7	NS	12	NS	8.6
K31d	NS	ND	NS	NS												
TWA	NS	1.7	NS	1	NS	1.4	NS	1.2	NS	ND	NS	1.1	NS	ND	NS	1.0
TWB	NS															
UW1	NS	21	NS	16	NS	16	NS	14	NS	10	NS	10	NS	8	NS	8.7
Confined System																
W-35d	NS	ND	NS	NS												
W-101d	NS	ND														
W-102d	NS	ND														
W-123d	NS	ND	NS	NS												
W-124d	NS	7.8	NS	8.4	NS	7.2	NS	7.7	NS	7.2	NS	8.1	NS	7.2	NS	6.8
MW-12d	NS	ND	NS	NS												
MW-16d	NS	ND	NS	NS												
MW-23d	NS	ND	NS	NS	NS	2	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-33d	NS	ND	NS	NS												
MW-34d	NS	ND	NS	NS												
MW-38d	NS	ND	NS	NS												
TWF	NS															

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-3
 Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

NS	6.5	NS	6.2	NS	15	NS	20	NS	30	NS	12	NS	8.2	NS	5.4	NS
NS	45	NS	48	NS	31	28	35	28	33	NS	47	NS	21	NS	42	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	12	NS	9.8	NS	9.3	NS	9.0	NS	7.1	NS	9.0	NS	7.8	NS	9.0	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	1.1	NS	1.1	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	8.7	NS	7.8	NS	7.0	6.9	7.8	8.7	7.3	NS	10	NS	12	NS	6.3	NS

NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	ND	NS	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	9.0	NS	9.3	NS	9.5	9.8	10	11	9.8	NS	10	NS	8.4	NS	11	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)									
	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Lower Unconfined System										
OW 12	6.5	NS	8.8	NS	7.6	NS	17	NS	34	NS
OW 14	26	NS	29	NS	39	NS	33	NS	24	NS
OW 16	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
OW 23	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
MW-34i	ND	ND	ND	NS	ND	NS	NS	NS	ND	NS
MW-38i	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
K3d	ND	NS	NS	NS	7.9	NS	NS	NS	ND	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	ND	ND	NS	NS	NS	NS	NS	NS	ND	NS
K13d	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	8.2	NS	9.0	NS	9.2	NS	9.2	NS	9.7	NS
K31d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
TWA	ND	NS	ND	NS	ND	NS	ND	NS	9.0	NS
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	11	NS	5.1	NS	8.3	NS	4.5	NS	7.1	NS
Confined System										
W-35d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-101d	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-102d	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-123d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-124d	11	NS	11	NS	11	NS	8.7	NS	12	NS
MW-12d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-16d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-23d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-33d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-34d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-38d	ND	ND	ND	NS	ND	NS	NS	NS	ND	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	No compounds were detected in the sample from this well.									
NS	Well was not sampled during the quarter indicated.									

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Analyte Results (ug/L)																
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Extraction Wells																
EW-1	NS	NS	NS	23	23	14	12	13	ND	11	12	11	12	10	10	8
EW-2	NS	NS	NS	1,300	1,400	1,300	1,100	930	900	960	620	620	570	550	610	530
EW-3	NS	NS	NS	4,200	3,800	2,900	2,700	1,300	1,200	ND	770	1,100	900	540	870	730
EW-4	NS	NS	NS	45	58	2	52	71	72	490	600	950	1,400	1,400	1,300	1,500
EW-5	NS	NS	NS	59	64	67	70	91	110	100	100	110	120	120	140	170
EW-6	NS	NS	NS	220	270	NS	NS	NS	190	260	230	270	300	190	180	160
EW-6a	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-7	NS	NS	NS	16	8	19	ND	10	13	16	14	17	18	17	17	17
EW-8	NS	NS	NS	930	2,300	1,000	270	1,100	1,500	1,400	1,100	940	1,000	960	880	1,100
EW-9	NS	NS	NS	57	38	31	24	32	25	33	33	32	26	33	31	25
EW-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	470
EW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	No compounds were detected in the sample from this well.															
NS	Well was not sampled during the quarter indicated.															

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
7	5	6	5	5	4	4	4	4	3	3	4	4	3	3	3	2
380	300	290	250	190	180	200	180	150	110	150	140	120	96	69	88	66
520	450	510	580	340	370	430	350	390	300	530	390	290	230	250	260	220
1,100	1,000	990	930	790	1,000	1,200	1,200	940	800	820	760	660	550	630	600	500
180	200	190	270	290	330	340	490	520	490	540	660	820	740	790	750	610
140	170	180	NS													
NS	NS	NS	100	85	100	100	110	92	83	82	78	71	72	75	62	62
15	14	12	13	10	11	10	12	10	8	8	7	7	7	9	8	8
830	780	700	820	640	610	530	460	510	420	410	340	310	270	270	230	280
31	27	31	28	23	25	24	26	27	21	28	21	24	19	25	22	23
300	240	220	200	140	130	110	99	100	77	77	60	50	47	52	41	45
NS	NS	NS	NS	NS	NS	17	16	31	53	100	140	160	190	170	180	170

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Analyte Results (ug/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Extraction Wells																
EW-1	2.3	2.1	2.5	2.5	2.0	2.3	1.9	2.1	1.6	1.8	2.7	2.4	2.1	2.2	1.6	1.4
EW-2	68	71	63	66	66	69	61	62	58	58	64	58	55	55	49	45
EW-3	240	260	220	250	250	270	250	250	240	250	240	250	250	230	200	190
EW-4	590	660	530	600	560	540	500	560	530	560	510	490	490	480	460	410
EW-5	530	510	540	500	440	540	580	530	390	420	430	360	290	300	320	310
EW-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-6a	76	75	74	80	70	74	69	69	61	51	51	45	42	43	8	35
EW-7	8.1	7.7	6.8	6.4	6.5	6.7	7.6	7.4	6.6	5.9	7.4	7.1	6.2	5.5	5.6	5.5
EW-8	320	350	240	260	240	250	220	210	220	230	190	210	200	180	180	160
EW-9	25	24	24	27	26	27	28	29	25	24	27	28	25	26	26	26
EW-10	39	32	30	28	26	29	28	26	23	23	21	18	20	18	18	15
EW-11	170	150	160	170	130	140	120	92	98	89	94	91	88	91	130	140
ND	No compounds were detected in the sample from this well.															
NS	Well was not sampled during the quarter indicated.															

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
	1.3	ND	ND	1.2	1.2	ND	ND	1.2	1.0	1.7	ND	ND	1.1	1.0	ND	ND	ND
	53	53	48	43	49	52	47	49	41	42	40	35	35	37	32	33	28
	230	200	200	180	210	190	190	210	200	160	150	130	110	93	95	81	77
	490	490	480	500	530	600	580	570	580	490	490	570	510	450	390	400	350
	270	260	300	210	180	120	88	88	94	140	160	190	190	250	270	330	300
	NS																
	34	16	30	57	44	53	56	46	50	39	29	39	39	21	33	20	40
	7	6.7	ND	7.8	7.9	7.2	6.5	6.0	5.6	5.9	5.2	4.8	5.2	4.3	4.5	5.0	4.7
	140	120	130	110	110	130	140	130	120	110	100	140	140	120	100	110	100
	28	27	28	26	27	27	27	27	25	28	17	28	27	23	24	23	23
	16	14	15	13	12	10	12.0	11	9.3	10.0	8.7	9.0	7.2	6.7	6.9	7.0	6.3
	140	130	130	160	150	140	150	140	110	100	25	120	94	93	88	70	69

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Analyte Results (ug/L)

Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
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Table b5-4Qurtty

EW-1	1.2	1.1	1.0	U	1.0	1.4	1.1	1.2	1.4	1.4
EW-2	32	29	27	28	29	29	28	26	30	29
EW-3	74	73	71	84	92	120	110	100	98	100
EW-4	360	320	320	350	330	350	330	260	310	280
EW-5	310	360	320	240	320	300	330	200	250	320
EW-6	NS	NS	25	12	NS	NS	NS	NS	38	39
EW-6a	35	26	35	42	51	36	35	45	NS	NS
EW-7	5.7	5.3	5.3	4.7	6.7	4.9	4.9	4.4	3.7	3.9
EW-8	96	95	100	100	89	86	100	100	87	77
EW-9	24	23	23	22	23	23	24	18	18	17
EW-10	7.3	6.2	6.2	6.1	5.9	6.1	6.2	5.1	5.8	5.9
EW-11	64	61	56	55	54	54	60	46	55	9.5

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-7s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-15s	NS	NS	NS	NS	NS	NS	NS	NS	NS	13	17	21	NS	12	9.5	14
W-16s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	ND	ND
W-17s	NS	NS	NS	NS	NS	NS	NS	NS	NS	26	96	56	NS	28	48	49
W-18s	NS	NS	NS	NS	NS	NS	NS	NS	NS	29	ND	ND	NS	69	ND	14
W-26s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	9.3	NS	6.8	10	12
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-101s	5,700	2,500	4,100	3,800	6,000	3,800	890	5,600	4,600	6,500	8,200	6,600	7,200	7,000	6,800	2,800
W-102s	24	23	110	82	300	180	100	280	370	300	320	380	460	260	270	400
W-103s	110	150	78	67	350	300	72	16	69	180	210	270	180	170	240	260
W-104s	37	ND	NS	NS	NS	ND	NS	NS	NS							
W-105s	ND	17	ND	NS	NS	NS	ND	NS	NS	NS						
W-106s	16	ND	NS	NS	NS	ND	NS	NS	NS							
W-107s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-110s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-114s	ND	ND	9.7	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-116s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-117s	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	NS	NS	NS
W-120s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-121s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-122s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-123s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124s	570	1,500	1,400	530	340	130	140	340	28	19	16	ND	14	ND	ND	15
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	33,000	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,000	NS
MW-12s	ND	36	ND	46												
MW-16s	ND	7.8	ND	NS	NS	NS	ND	NS	NS	NS						
MW-23s	ND	ND	ND	ND	22	ND										
MW-33s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-5
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS																
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
NS	ND	ND	ND	NS	15	9.2	ND	NS	10	ND	NS	NS	NS	ND	NS	NS
NS	NS	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	NS
NS	29	ND	13	NS	12	5.4	8.8	NS	10	6.8	NS	12	NS	23	NS	26
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	61	45	44	NS	33	34	57	NS	49	29	NS	50	NS	35	NS	27
NS	ND	ND	ND	NS	25	31	41	NS	18	22	NS	38	NS	42	NS	35
NS	10	9.2	12	NS	9.1	9.7	8.7	NS	5.1	9.2	NS	NS	NS	17	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
NS																
6,100	4,500	2,500	2,900	2,500	1,700	1,600	1,800	850	860	440	NS	700	NS	1,200	NS	880
240	210	170	160	200	110	120	130	120	110	100	NS	160	NS	260	NS	240
210	200	220	240	180	130	170	180	130	110	52	NS	110	NS	150	NS	190
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
12	10	11	ND	7	ND	ND	8	6	ND	ND	NS	ND	NS	ND	NS	5.4
NS																
NS																
61	6.2	35	19	ND	ND	28	14	ND	ND	13	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
110	72	31	46	30	19	14	27	23	13	7.9	NS	10	NS	13	NS	8.7
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS

Table 5-5
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	NS	ND	NS	NS	NS	10	NS	NS	NS	5.9	NS	NS	NS	ND	NS	NS
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	NS	24	NS	28	NS	18	NS	16	NS	10	NS	16	NS	11	NS	38
W-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-17s	NS	23	NS	22	NS	19	NS	15	NS	9.4	NS	21	NS	20	NS	25
W-18s	NS	48	NS	920	NS	250	NS	280	NS	100	NS	81	NS	71	NS	43
W-26s	NS	5.8	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	NS	490	NS	380	NS	320	NS	390	NS	310	NS	260	NS	240	NS	220
W-102s	NS	87	NS	95	NS	94	NS	160	NS	110	NS	44	NS	41	NS	69
W-103s	NS	150	NS	92	NS	120	NS	100	NS	68	NS	94	NS	65	NS	88
W-104s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-107s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-110s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-114s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-116s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-120s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-121s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-122s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-123s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-124s	NS	5	NS	5	NS	ND										
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	NS	ND	NS	ND	NS	ND	NS	ND	NS	6	NS	ND	NS	ND	NS	ND
MW-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-23s	NS	5.4	NS	ND	NS	13	NS	ND								
MW-33s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-5
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Analytical Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Upper Unconfined System										
W-3	NS									
W-5s	NS									
W-6s	NS									
W-7s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-13s	NS									
W-15s	40	NS	42	NS	32	NS	14	NS	7.6	NS
W-16s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-17s	8.4	NS	10	NS	8.3	NS	12	NS	12	NS
W-18s	57	NS	71	NS	23	NS	43	NS	33	NS
W-26s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-28s	NS									
W-29s	NS									
W-101s	150	NS	120	NS	130	NS	130	NS	1,300	NS
W-102s	94	NS	77	NS	95	NS	70	NS	110	NS
W-103s	48	NS	52	NS	44	NS	29	NS	47	NS
W-104s	ND	NS	8.9	NS	ND	NS	NS	NS	ND	NS
W-105s	ND	ND	NS	NS	ND	NS	NS	NS	ND	NS
W-106s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-107s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-110s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-114s	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
W-116s	ND	ND	NS	NS	ND	NS	NS	NS	ND	NS
W-117s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-120s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-121s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-122s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-123s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-124s	ND	NS								
W-126s	NS									
W-127s	NS									
MW-12s	ND	NS								
MW-16s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-23s	ND	NS								
MW-33s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-34s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-38s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
K2s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
K4sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K12s	NS	ND	NS	NS	NS	ND	NS	NS	NS							
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS							
Lower Unconfined System																
W-5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	NS	NS	NS	NS	NS	NS	NS	NS	38	110	28	NS	61	120	120
W-7d	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,300	5,800	5,800	NS	7,100	7,500	7,800
W-13d	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.7	19	26	NS	16	28	18
W-15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	97	160	140	NS	65	99	79
W-16d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	56	120	NS	62	67	74
W-17d	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,200	2,500	2,000	NS	3,000	3,500	3,700
W-23d	NS	NS	NS	NS	NS	NS	NS	NS	NS	100	100	99	NS	76	96	73
W-26d	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,800	3,400	3,100	NS	2,300	2,600	2,400
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-101i	1,600	1,000	1,400	1,600	1,300	970	1,000	1,100	1,100	750	400	340	440	420	460	540
W-102i	9.7	ND														
W-103i	120	ND	950	ND	2,200	2,100	770	1,200	510	770	190	620	720	550	1,100	440
W-104i	7.5	9.4	ND	ND	ND	5.8	ND									
W-105i	330	41	ND	ND	11	12	ND	ND	ND	ND	5	10	11	11	12	12
W-106i	1,300	5,800	1,000	320	5,000	3,300	2,500	340	1,500	1,200	1,600	2,800	3,100	2,700	2,700	3,000
W-107i	700	600	1,800	1,300	2,200	780	840	690	480	440	520	470	430	280	270	280
W-110i	22	ND	21	16	55	47	32	5.3	27	19	29	29	26	22	25	18
W-114i	440	440	81	84	530	590	390	520	530	330	280	200	190	180	150	140
W-116i	ND	39	ND													
W-117i	46	110	13	19	130	130	61	100	NS	120	270	400	360	180	430	140
W-120i	49	160	40	51	230	150	120	180	110	39	110	100	100	63	84	91
W-121i	130	260	ND	20	140	130	59	85	34	21	58	55	63	48	59	57
W-122i	14	ND	ND	15	33	9.9	9.4	5.8	5	ND	10	6.7	7.2	6.2	7	5.8
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,100	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,600	NS
OW 3	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
OW 9d	230	100	160	170	160	24	710	610	45	780	ND	ND	ND	ND	ND	ND

Table 5-5
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS															
NS	ND	NS	ND	NS	ND	NS	NS									
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS														
NS	ND	NS	ND	NS	NS											
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	100	140	100	NS	86	100	85	NS	68	100	NS	69	NS	110	NS	74
NS	8,700	7,300	7,800	NS	5,800	5,700	6,100	NS	5,600	4,500	NS	5,400	NS	8,600	NS	10,000
NS	26	19	22	NS	11	11	14	NS	6.6	12	NS	ND	NS	7.8	NS	6.9
NS	210	150	160	NS	74	82	71	NS	36	56	NS	52	NS	67	NS	61
NS	61	120	23	NS	12	12	8.8	NS	5.5	6.6	NS	11	NS	28	NS	21
NS	5,600	6,200	4,100	NS	2,600	2,000	3,000	NS	3,500	3,800	NS	1,500	NS	1,200	NS	3,400
NS	59	77	35	NS	35	44	63	NS	27	28	NS	ND	NS	ND	NS	ND
NS	2,400	3,300	2,800	NS	2,400	2,700	3,000	NS	3,200	2,500	NS	2,100	NS	3,000	NS	5,100
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS						
540	610	620	650	680	650	640	680	620	530	560	NS	600	NS	710	NS	720
ND	NS	ND	NS	ND	NS	ND										
160	180	140	100	130	89	93	76	94	110	100	NS	91	NS	99	NS	100
ND	NS	NS	NS	ND	NS	NS										
13	11	12	8.4	8.8	6.5	7.1	ND	ND	5.9	6.1	NS	NS	NS	ND	NS	NS
2,000	2,200	1,500	1,900	1,800	1,800	1,500	1,500	1,400	380	1,300	NS	920	NS	1,800	NS	1,100
200	250	210	190	170	160	150	100	120	94	110	NS	100	NS	95	NS	72
14	14	16	ND	16	11	ND	ND	10	8.1	10	NS	ND	6	7	8	11
98	140	120	110	94	100	74	68	60	52	34	NS	ND	27	32	30	46
ND	NS	NS	NS	ND	NS	NS										
200	230	360	88	79	84	120	78	57	200	150	NS	87	NS	110	NS	110
52	79	72	70	62	57	53	41	36	43	59	NS	ND	NS	51	NS	44
37	56	49	54	53	36	52	47	33	47	41	NS	45	NS	33	NS	50
5.3	ND	5.4	NS	6.5	NS	10	NS	14								
NS																
NS																
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS	ND
ND	NS	ND	ND	ND	NS	ND	NS	ND	NS	ND						

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Analytical Results (ug/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
K2s	NS	ND	NS	NS												
K4s	NS															
K4sR	NS	ND	NS	NS												
K12s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	ND	NS
K14s	NS															
K14sR	NS															
K32s	NS	ND	NS	NS												
Lower Unconfined System																
W-5d	NS	ND	NS	NS												
W-6d	NS	64	NS	56	NS	46	NS	57	NS	31	NS	45	NS	18	NS	25
W-7d	NS	7,700	NS	8,700	NS	8,400	NS	8,500	NS	6,400	NS	2,100	NS	4,900	NS	5,900
W-13d	NS	6.8	NS	7.2	NS	5.4	NS	5.4	NS	ND	NS	6.4	NS	ND	NS	ND
W-15d	NS	60	NS	57	NS	50	NS	55	NS	50	NS	65	NS	57	NS	69
W-16d	NS	16	NS	63	NS	7.5	NS	5.5	NS	ND	NS	ND	NS	ND	NS	5.1
W-17d	NS	3,300	NS	2,400	NS	2,100	NS	2,400	NS	1,600	NS	960	NS	440	NS	610
W-23d	NS	ND														
W-26d	NS	4,700	NS	4,100	NS	3,900	NS	4,200	NS	2,900	NS	3,800	NS	3,600	NS	3,800
W-28d	NS															
W-101i	NS	740	NS	1,100	NS	830	NS	1,200	NS	750	NS	1,100	NS	920	NS	1,100
W-102i	NS	ND														
W-103i	NS	95	NS	87	NS	77	NS	92	NS	99	NS	90	NS	75	NS	85
W-104i	NS	ND	NS	NS												
W-105i	NS	ND	NS	NS												
W-106i	NS	2,100	NS	1,700	NS	1,200	NS	1,300	NS	980	NS	1,300	NS	810	NS	760
W-107i	NS	93	NS	68	NS	77	NS	61	NS	71	NS	68	NS	56	NS	42
W-110i	11	7	7	6	6	5	9	5	5	ND	ND	9	ND	ND	ND	ND
W-114i	53	63	40	64	47	ND	ND	36	33	ND	ND	26	60	31	35	38
W-116i	NS	ND	NS	NS												
W-117i	NS	410	NS	650	NS	80	NS	26	NS	310	NS	95	NS	48	NS	26
W-120i	NS	38	NS	47	NS	49	NS	37	NS	44	NS	48	NS	31	NS	54
W-121i	NS	51	NS	72	NS	77	NS	93	NS	69	NS	95	NS	83	NS	82
W-122i	NS	26	NS	28	NS	26	NS	30	NS	26	NS	29	NS	23	NS	32
W-126i	NS															
W-127i	NS															
OW 3	NS	ND														
OW 9d	NS	ND														

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	ND	NS	ND	NS	NS	NS										
NS																
NS	ND	NS	NS	NS												
NS	ND	NS	ND	NS	NS	NS										
NS																
NS																
NS	ND	NS	ND	NS	NS	NS										

NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	33	NS	20	NS	14	NS	13	NS	8.7	NS	18	NS	19	NS	12	NS
NS	7,400	NS	8,000	NS	7,600	11,000	8,600	7,800	9,400	NS	8,200	NS	9,300	NS	8,900	NS
NS	5.3	NS	5.0	NS	ND	NS	ND	NS	39	NS	ND	NS	ND	NS	ND	NS
NS	61	NS	60	NS	38	NS	54	NS	ND	NS	43	NS	50	NS	50	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	560	NS	1,600	NS	1,000	880	560	780	500	NS	350	NS	370	NS	360	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	3,700	NS	3,900	NS	3,500	3,400	3,800	4,600	3,600	NS	4,000	NS	3,400	NS	3,600	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	1,200	NS	1,200	NS	1,200	1,000	860	1,000	780	NS	870	NS	1,000	NS	1,300	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	9.6	NS	ND	NS	ND	NS	ND	NS
NS	76	NS	90	NS	68	180	85	82	98	NS	82	NS	120	NS	120	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	560	NS	550	NS	640	NS	580	NS	310	NS	400	NS	300	NS	620	NS
NS	50	NS	44	NS	43	NS	51	NS	42	NS	30	NS	42	NS	32	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	29	38	8.1	22	32	39	30	36	41	38	ND	38	37	33	36	27
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	28	NS	22	NS	18	NS	23	NS	22	NS	20	NS	18	NS	21	NS
NS	39	NS	42	NS	56	NS	61	NS	49	NS	26	NS	21	NS	17	NS
NS	66	NS	55	NS	61	NS	69	NS	69	NS	83	NS	93	NS	100	NS
NS	42	NS	49	NS	49	NS	45	NS	44	NS	39	NS	37	NS	36	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Analytical Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Upper Unconfined System										
K2s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K4s	NS									
K4sR	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K12s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K14s	NS									
K14sR	NS									
K32s	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
Lower Unconfined System										
W-5d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-6d	12	NS	ND	NS	13	NS	8.5	NS	15	NS
W-7d	7,600	NS	8,100	NS	7,500	NS	8,900	NS	NS	NS
W-13d	ND	NS								
W-15d	56	NS	41	NS	43	NS	39	NS	51	NS
W-16d	ND	NS								
W-17d	520	NS	720	NS	690	NS	750	NS	1,200	NS
W-23d	ND	NS								
W-26d	3,100	NS	2,300	NS	2,200	NS	2,500	NS	2,700	NS
W-28d	NS									
W-101i	1,100	NS	1,100	NS	860	NS	710	NS	470	NS
W-102i	ND	NS								
W-103i	80	NS	92	NS	ND	NS	57	NS	27	NS
W-104i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-105i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-106i	530	NS	830	NS	740	NS	920	NS	1,000	NS
W-107i	30	NS	26	NS	25	NS	28	NS	31	NS
W-110i	9.6	8.6	ND							
W-114i	ND	ND	ND	36	ND	10	25	31	37	51
W-116i	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-117i	22	NS	29	NS	22	NS	14	NS	15	NS
W-120i	19	NS	15	NS	18	NS	16	NS	17	NS
W-121i	120	NS	120	NS	110	NS	110	NS	100	NS
W-122i	47	NS	40	NS	68	NS	60	NS	63	NS
W-126i	NS									
W-127i	NS									
OW 3	ND	NS								
OW 9d	ND	NS	ND	NS	ND	NS	ND	NS	5.4	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Lower Unconfined System																
OW 12	8,300	6,700	6,800	6,500	9,000	7,600	7,900	6,900	7,000	4,600	5,600	5,700	5,700	4,500	2,700	3,400
OW 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	2,200	2,200	NS	2,300	2,500	2,700
OW 16	130	5.9	16	ND	14	15	8.9	9.2	ND							
OW 23	710	2,300	3,000	440	7,200	13,000	7,200	6,200	4,900	2,900	2,100	2,600	1,500	740	430	520
OW 29	ND	NS														
MW-33i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K3d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K5d	8.7	NS	ND	NS	NS	NS	ND	NS	NS	NS						
K5dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K13d	NS	ND	NS	NS	NS	ND	NS	NS	NS							
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,900	1,700	2,100	NS	1,900	2,000	2,800
K31d	NS	ND														
TWA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	320	950	NS	1,200	1,400	1,300
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	NS	NS
UW1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,500	2,800	NS	3,100	3,500	3,200
Confined System																
W-35d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-101d	160	12	58	58	39	ND	15	110	130	160	7	7	ND	ND	10	ND
W-102d	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-123d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124d	36	99	54	38	180	180	110	91	72	64	87	110	120	88	86	87
MW-12d	5.9	8.4	ND													
MW-16d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-33d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34d	NS	ND	NS	NS	NS	ND	NS	NS	NS							
MW-38d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
2,600	3,200	3,500	4,700	3,700	2,500	2,500	3,400	2,400	370	1,900	NS	2,900	NS	800	NS	830
NS	2,600	2,400	2,000	NS	1,900	1,800	2,000	NS	1,500	1,200	NS	1,300	NS	1,300	NS	2,100
ND	NS	ND	NS	ND	NS	ND										
310	520	530	540	410	390	300	290	290	290	280	NS	200	NS	90	NS	170
NS																
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS							
NS	ND	NS	ND	NS	NS											
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS														
NS	ND	NS	ND	NS	NS											
NS	2,400	2,800	2,800	NS	2,400	3,000	2,600	NS	3,000	2,500	NS	3,000	NS	14,000	NS	7,400
ND	NS	NS	NS	ND	NS	NS										
NS	1,300	1,100	550	NS	330	340	340	NS	180	200	NS	160	NS	120	NS	190
NS																
NS	2,600	2,600	3,600	NS	4,300	6,600	11,000	NS	14,000	9,200	NS	10,000	NS	41,000	NS	11,000

NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	ND	7	ND	7	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	6
ND	NS	ND	NS	ND	NS	ND										
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
71	80	64	42	44	25	22	29	21	16	25	NS	21	NS	18	NS	35
ND	NS	NS	NS	ND	NS	NS										
NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS															

Table 5-5
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Analytical Results (ug/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Lower Unconfined System																
OW 12	NS	760	NS	1,100	NS	770	NS	660	NS	830	NS	1,600	NS	1,500	NS	880
OW 14	NS	1,900	NS	1,600	NS	1,000	NS	1,100	NS	840	NS	1,000	NS	920	NS	900
OW 16	NS	ND														
OW 23	NS	160	NS	83	NS	83	NS	80	NS	58	NS	77	NS	57	NS	59
OW 29	NS															
MW-33i	NS	ND	NS	NS												
MW-34i	NS	ND	NS	NS												
MW-38i	NS	ND														
K3d	NS	ND	NS	NS												
K5d	NS															
K5dR	NS	ND	NS	NS												
K13d	NS	ND	NS	NS												
K15d	NS															
K15dR	NS															
K28d	NS	7,100	NS	6,700	NS	8,000	NS	8,700	NS	6,100	NS	4,900	NS	6,300	NS	4,500
K31d	NS	ND	NS	NS												
TWA	NS	240	NS	92	NS	100	NS	160	NS	82	NS	190	NS	93	NS	150
TWB	NS															
UW1	NS	5,800	NS	7,000	NS	5,000	NS	5,400	NS	3,300	NS	4,300	NS	3,600	NS	3,800
Confined System																
W-35d	NS	ND	NS	NS												
W-101d	NS	ND	NS	14	NS	ND	NS	5.5								
W-102d	NS	ND														
W-123d	NS	ND	NS	NS												
W-124d	NS	40	NS	42	NS	33	NS	55	NS	53	NS	67	NS	62	NS	71
MW-12d	NS	ND	NS	NS												
MW-16d	NS	ND	NS	NS												
MW-23d	NS	ND	NS	NS												
MW-33d	NS	ND	NS	NS												
MW-34d	NS	ND	NS	NS												
MW-38d	NS	ND	NS	NS												
TWF	NS															

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	430	NS	350	NS	1,100	NS	890	NS	1,600	NS	550	NS	830	NS	520	NS
NS	770	NS	1,100	NS	780	570	640	610	720	NS	620	NS	470	NS	650	NS
NS	ND	NS														
NS	42	NS	60	NS	40	NS	46	NS	41	NS	34	NS	27	NS	29	NS
NS																
NS	ND	NS	ND	NS	NS	ND										
NS	ND	NS	NS	ND												
NS	ND	NS														
NS	ND	NS	NS	NS												
NS																
NS	ND	NS	ND	NS	NS	NS										
NS	ND	NS	NS	NS												
NS																
NS																
NS	4,900	NS	4,800	NS	3,400	NS	2,700	NS	2,000	NS	1,800	NS	1,500	NS	1,300	NS
NS	ND	NS	NS	NS												
NS	20	NS	120	NS	84	NS	110	NS	87	NS	120	NS	85	NS	100	NS
NS																
NS	3,500	NS	2,900	NS	2,300	2,700	2,500	2,300	2,200	NS	2,200	NS	3,600	NS	1,900	NS
NS	ND	NS	ND	NS	NS	NS										
NS	ND	NS	ND	NS	ND	ND	ND	ND	ND	NS	ND	NS	7.8	NS	ND	NS
NS	ND	NS														
NS	ND	NS	NS	NS												
NS	75	NS	100	NS	67	74	98	87	120	NS	98	NS	82	NS	220	NS
NS	ND	NS	NS	NS												
NS	ND	NS	NS	NS												
NS	ND	NS	NS	ND												
NS	ND	NS	NS	ND												
NS																

Table 5-5

Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Analytical Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Lower Unconfined System										
OW 12	610	NS	710	NS	920	NS	800	NS	970	NS
OW 14	530	NS	640	NS	560	NS	500	NS	700	NS
OW 16	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
OW 23	23	NS	24	NS	22	NS	18	NS	21	NS
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
MW-34i	ND	ND	ND	NS	ND	NS	NS	NS	ND	NS
MW-38i	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
K3d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	ND	ND	NS	NS	NS	NS	NS	NS	ND	NS
K13d	ND	NS	ND	NS	ND	NS	NS	NS	ND	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	1,100	NS	910	NS	920	NS	1,800	NS	810	NS
K31d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
TWA	87	NS	100	NS	91	NS	78	NS	410	NS
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	5,200	NS	1,600	NS	3,500	NS	1,300	NS	2,800	NS
Confined System										
W-35d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-101d	ND	NS	ND	NS	ND	NS	33	NS	26	NS
W-102d	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
W-123d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
W-124d	370	NS	430	NS	450	NS	430	NS	540	NS
MW-12d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-16d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-23d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-33d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-34d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
MW-38d	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	No compounds were detected in the sample from this well.									
NS	Well was not sampled during the quarter indicated.									

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Analyte Results (ug/L)																
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Extraction Wells																
EW-1	NS	NS	NS	390	680	550	480	460	370	200	300	410	290	240	260	210
EW-2	NS	NS	NS	4,700	3,600	3,600	3,500	260	3,800	2,300	2,700	3,300	3,300	2,900	2,600	3,100
EW-3	NS	NS	NS	2,500	2,800	2,600	2,400	1,400	1,300	ND	920	1,800	1,200	540	1,100	830
EW-4	NS	NS	NS	ND	95	7	57	70	66	99	250	280	390	350	350	430
EW-5	NS	NS	NS	370	450	420	170	450	310	210	320	320	320	260	240	320
EW-6	NS	NS	NS	31	110	NS	NS	NS	130	130	200	190	260	180	190	330
EW-6a	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-7	NS	NS	NS	72	38	250	ND	37	26	11	20	20	33	22	31	29
EW-8	NS	NS	NS	8,000	10,000	7,800	3,100	6,800	9,000	6,600	7,500	7,100	7,500	5,800	6,500	6,500
EW-9	NS	NS	NS	760	820	830	680	510	570	370	570	610	600	530	550	660
EW-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12,000
EW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	No compounds were detected in the sample from this well.															
NS	Well was not sampled during the quarter indicated.															

Table 5-6
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
140	190	200	150	150	110	95	120	100	73	120	130	77	68	63	71	60
1,900	2,200	2,600	2,300	1,100	1,800	1,300	1,800	1,500	1,800	1,700	1,400	1,300	1,100	1,100	1,100	1,100
390	540	450	370	180	240	210	180	210	160	260	290	210	200	240	270	300
300	340	340	280	300	310	410	330	370	190	180	210	140	140	160	170	200
260	400	400	380	360	330	320	350	250	260	310	360	310	300	380	290	290
140	220	260	NS													
NS	NS	NS	260	270	230	190	230	140	170	210	210	10	150	170	150	180
27	32	34	35	38	29	32	21	19	21	29	31	30	26	24	43	41
6,500	5,600	5,900	5,700	4,200	3,600	3,100	2,700	2,100	2,800	2,400	3,900	2,000	2,600	7,600	3,100	2,800
540	52	700	570	620	530	480	500	600	68	500	520	430	480	420	530	490
7,000	5,400	5,800	5,100	3,300	3,800	3,500	3,300	5,300	3,200	2,300	2,400	2,100	2,400	2,500	2,200	2,900
NS	NS	NS	NS	NS	NS	5,900	4,200	5,300	4,100	3,000	4,300	3,100	3,500	6,000	3,900	3,900

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Analyte Results (ug/L)																
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Extraction Wells																
EW-1	62	50	57	44	41	49	47	47	43	46	46	53	43	44	34	23
EW-2	1,000	990	980	1,000	1,100	840	1,000	930	960	930	950	1,100	1,000	1,000	750	810
EW-3	230	250	280	230	300	270	250	310	330	290	270	290	300	270	240	260
EW-4	200	190	200	210	230	190	210	230	240	190	220	250	240	210	230	210
EW-5	240	210	280	210	210	210	220	200	170	200	200	180	200	160	200	160
EW-6	NS		NS													
EW-6a	110	110	110	83	92	78	79	76	57	46	56	51	53	32	34	32
EW-7	46	26	43	36	23	28	39	41	34	21	37	38	38	30	36	28
EW-8	2,300	2,100	2,900	2,500	2,600	2,200	2,600	2,300	1,900	2,000	1,900	1,700	1,900	1,400	1,500	1,300
EW-9	480	450	510	420	380	400	480	500	480	440	490	470	450	400	470	440
EW-10	2,300	2,000	2,200	1,500	1,600	1,200	1,400	1,200	1,300	1,100	1,200	1,200	1,100	1,000	1,000	990
EW-11	3,300	3,200	3,600	2,800	3,100	2,600	2,600	2,700	2,600	2,400	2,200	2,300	2,200	2,500	2,500	2,500

ND No compounds were detected in the sample from this well.
 NS Well was not sampled during the quarter indicated.

Table 5-6
 Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
28	27	22	19	23	22	20	15	23	29	23	23	18	23	14	13	15
830	790	800	710	790	730	870	770	760	710	680	560	560	640	550	570	470
290	270	320	300	310	290	390	310	340	310	300	290	280	340	250	270	270
230	210	230	260	210	220	240	200	180	180	170	170	140	160	110	130	130
150	160	160	170	150	130	100	150	120	150	150	150	150	160	140	150	130
NS																
31	29	31	20	19	23	26	25	14	17	15	18	16	16	13	17	12
29	30	36	25	23	24	24	25	20	16	25	16	11	17	16	15	12
1,400	1,300	1,300	1,100	1,000	900	990	980	770	920	990	710	730	1,100	840	530	620
490	460	500	450	470	430	480	540	450	500	290	400	540	570	550	610	580
1,200	1,100	1,200	1,200	1,200	1,100	1,000	880	800	680	1,400	700	600	720	600	670	520
2,600	2,500	2,100	3,000	2,800	2,600	2,600	2,900	2,200	2,100	560	1,800	1,400	1,600	1,400	1,500	1,000

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Analyte Results (ug/L)										
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14	Dec-14
Extraction Wells										
EW-1	20	17	11	13	12	16	12	13	17	17
EW-2	570	500	520	500	600	500	520	570	620	580
EW-3	280	280	290	340	470	360	330	420	320	370
EW-4	110	140	140	120	160	140	140	120	150	120
EW-5	110	140	110	100	140	110	120	110	130	120
EW-6	NS	NS	7.5	ND	NS	NS	NS	NS	9.0	6.9
EW-6a	12	12	11	11	10	9.0	8.5	13	NS	NS
EW-7	14	16	11	10	10	11	11	8.9	9.4	8.9
EW-8	760	770	560	560	730	550	580	660	570	640
EW-9	570	540	530	620	550	450	490	350	340	270
EW-10	470	480	450	440	550	480	490	470	400	370
EW-11	1,600	1,200	900	940	960	490	940	820	920	770

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, $\mu\text{g/L}$	Minimum Concentration, $\mu\text{g/L}$	Average Concentration ¹ , $\mu\text{g/L}$	Median Concentration, $\mu\text{g/L}$	Number of Samples
Upper Unconfined System					
W-3	ND	ND	ND	ND	1
W-5s	5	ND	1	ND	5
W-6s	ND	ND	ND	ND	5
W-7s	110	ND	16	9	27
W-13s	14	ND	2	ND	14
W-15s	47	5	19	15	38
W-16s	9	ND	1	ND	24
W-17s	8,989	326	2,139	1,042	38
W-18s	494,566	3,264	117,723	111,741	40
W-26s	23	ND	10	10	25
W-28s	ND	ND	ND	ND	5
W-29s	ND	ND	ND	ND	1
W-101s	775,104	24,934	225,242	240,253	53
W-102s	2,810	219	1,078	1,010	53
W-103s	1,008	83	441	430	51
W-104s	70	ND	8	ND	25
W-105s	433	ND	22	ND	27
W-106s	68	ND	7	ND	25
W-107s	76	ND	6	ND	24
W-110s	13	ND	3	1	26
W-114s	88	ND	9	ND	27
W-116s	35	ND	3	ND	26
W-117s	48	ND	3	ND	23
W-120s	44	ND	4	ND	25
W-121s	26	ND	3	ND	25
W-122s	21	ND	4	ND	25
W-123s	61	ND	5	ND	23
W-124s	26,468	226	3,275	943	53
W-126s	86,965	86,965	86,965	86,965	1
W-127s	6,421	ND	3,211	3,211	2
MW-12s	241	ND	20	ND	51
MW-23s	332	ND	28	11	51
MW-16s	624	ND	55	ND	23
MW-33s	12	ND	2	ND	10
MW-34s	74	ND	8	ND	24

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, $\mu\text{g/L}$	Minimum Concentration, $\mu\text{g/L}$	Average Concentration ¹ , $\mu\text{g/L}$	Median Concentration, $\mu\text{g/L}$	Number of Samples
MW-38s	14	ND	2	ND	16
K2s	20	ND	1	ND	15
K4s	36	ND	8	7	25
K4sR	19	ND	1	ND	14
K12s	155	ND	25	10	22
K14s	ND	ND	ND	ND	1
K14sR	ND	ND	ND	ND	2
K32s	22	ND	4	ND	22
Lower Unconfined System					
W-5d	9	ND	2	ND	14
W-6d	151	9	60	58	38
W-7d	13,699	2,341	9,974	10,484	39
W-13d	61	ND	17	16	38
W-15d	270	38	87	68	38
W-16d	217	ND	39	11	37
W-17d	7,270	528	2,667	2,218	40
W-23d	1,451	113	475	361	38
W-26d	10,933	2,504	5,612	4,984	40
W-28d	13	ND	3	ND	4
W-101i	41,656	1,459	11,711	8,666	53
W-102i	216	6	74	52	51
W-103i	3,610	210	1,266	1,422	53
W-104i	102	ND	9	2	39
W-105i	1,081	ND	47	9	39
W-106i	14,013	457	3,662	3,496	51
W-107i	4,387	52	594	204	51
W-110i	2,335	123	1,084	969	75
W-114i	15,805	267	7,739	6,940	75
W-116i	205	6	45	32	39
W-117i	3,763	62	1,621	1,350	50
W-120i	1,219	65	491	492	51
W-121i	573	59	199	197	51
W-122i	926	20	118	91	51
W-126i	26,059	26,059	26,059	26,059	1
W-127i	9,407	9,407	9,407	9,407	1
OW 3	70	ND	10	5	37

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, µg/L	Minimum Concentration, µg/L	Average Concentration ¹ , µg/L	Median Concentration, µg/L	Number of Samples
OW 9d	5,790	15	477	90	53
OW 12	44,945	430	5,852	3,442	51
OW 14	7,200	735	2,911	2,130	40
OW 16	1,281	1	104	49	51
OW 23	37,939	28	4,433	334	51
MW-33i	18	ND	5	ND	11
MW-34i	34	ND	6	6	28
MW-38i	44	3	10	7	38
K3d	56	ND	12	9	26
K5d	156	ND	22	7	12
K5dR	19	ND	7	8	11
K13d	64	ND	9	5	25
K15d	70	70	70	70	1
K15dR	ND	ND	ND	ND	2
K28d	14,522	1,021	4,154	3,403	38
K31d	88	ND	14	3	38
TWA	2,736	123	647	236	37
TWB	22	ND	14	19	3
UW1	43,848	1,891	6,950	4,923	39
Confined System					
W-35d	27	ND	7	ND	24
W-101d	54,706	13,718	25,856	26,694	53
W-102d	91	ND	6	ND	51
W-123d	58	ND	17	12	25
W-124d	720	65	254	200	53
MW-12d	144	ND	8	ND	39
MW-23d	124	ND	18	4	25
MW-16d	18	ND	3	ND	25
MW-33d	23	ND	5	1	16
MW-34d	70	ND	9	4	25
MW-38d	59	ND	10	7	20
TWF	ND	ND	ND	ND	2
Extraction Wells					
EW-1	1,166	24	194	75	73
EW-2	9,573	716	2,375	1,616	73
EW-3	20,078	626	2,837	1,556	73

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, $\mu\text{g/L}$	Minimum Concentration, $\mu\text{g/L}$	Average Concentration ¹ , $\mu\text{g/L}$	Median Concentration, $\mu\text{g/L}$	Number of Samples
EW-4	8,997	582	3,717	3,394	73
EW-5	5,308	537	2,064	1,784	73
EW-6	865	232	639	655	17
EW-6a	1,303	ND	748	731	56
EW-7	464	ND	161	154	73
EW-8	39,402	3,356	12,539	8,164	73
EW-9	1,848	574	1,307	1,314	73
EW-10	23,324	1,662	6,097	4,350	61
EW-11	12,754	814	5,516	5,139	54

Legend
ND = No compounds were detected.

Notes
¹Averages were calculated based on all non-detect results having a value equal to zero (0).

Appendix A

Detection Frequency Report for the Seventy-sixth
Quarter of Groundwater Monitoring

Appendix A
Ott/Story/Cordova Superfund Site
Detection Frequency for 76th Quarter of Groundwater Monitoring (December 2014)
Units: µg/L

<u>Compound</u>	<u>Number of Samples</u>	<u>Number of Detections</u>	<u>Percent of Samples</u>	<u>Maximum Detection</u>	<u>Minimum Detection</u>	<u>Average Detection</u>
SW-846 8260						
1,1,1-TRICHLOROETHANE	13	4	31%	160	3.4	58
1,1,2-TRICHLOROETHANE	13	1	8%	2.3	2.3	2.3
1,1-DICHLOROETHANE	13	8	62%	110	6.1	27
1,1-DICHLOROETHENE	13	8	62%	21	3.1	9.0
1,2-DICHLOROBENZENE	13	6	46%	260	5.4	122
1,2-DICHLOROETHANE	13	8	62%	28	1.6	9.0
1,3-DICHLOROBENZENE	13	3	23%	11	4.3	8.1
1,4-DICHLOROBENZENE	13	4	31%	39	3	28
BENZENE	13	13	100%	690	1.3	121
CARBON TETRACHLORIDE	13	1	8%	68	68	68
CHLOROBENZENE	13	10	77%	190	2.3	36
CHLOROETHANE	13	10	77%	250	3.0	43
CHLOROFORM	13	3	23%	12	1.8	7.4
CIS-1,2-DICHLOROETHENE	13	8	62%	170	1.0	60
ETHYLBENZENE	13	4	31%	13	1.3	6.6
TETRACHLOROETHENE	13	3	23%	170	1.0	76
TETRAHYDROFURAN	13	9	69%	790	11.0	231
TOLUENE	13	10	77%	1500	1.3	176
TRANS-1,2-DICHLOROETHENE	13	6	46%	4.3	1.2	2.3
TRICHLOROETHENE	13	4	31%	55	1.4	22
VINYL CHLORIDE	13	9	69%	190	1.4	36
XYLENE (TOTAL)	13	3	23%	57	24	38
SW-846 8270						
ANILINE	13	13	100%	6900	5.0	705
CAMPHOR	13	11	85%	1700	8.4	239
N,N-DIMETHYLANILINE	13	12	92%	770	6.9	277
N-ETHYLANILINE	13	12	92%	290	9	102
N-METHYLANILINE	13	13	100%	310	11	87
TETRAMETHYLUREA	13	1	8%	8.2	8.2	8.2

Appendix B

Summary of Compounds Detected in Groundwater Samples
for Seventy-sixth Quarter of Groundwater Monitoring
and Comparison to the Michigan Residential
Groundwater Drinking Values.

Appendix B
Detected Compounds
Seventy-sixth Quarterly Groundwater Monitoring Event
December 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentration
W-110i-1214	W-110i	BENZENE	3.4			5 UG/L	
W-110i-1214	W-110i	CHLOROETHANE	13			430 UG/L	
W-110i-1214	W-110i	TETRAHYDROFURAN	740 D			95 UG/L	
W-110i-1214	W-110i	ANILINE	5.2			53 UG/L	
W-110i-1214	W-110i	CAMPHOR	140			NA UG/L	
W-110i-1214	W-110i	N-ETHYLANILINE	8.5			NA UG/L	
W-110i-1214	W-110i	N-METHYLANILINE	11			NA UG/L	
W-110i-1214	W-110i	TETRAMETHYLUREA	8.2			NA UG/L	929
W-114i-1214	W-114i	BENZENE	690 D			5 UG/L	
W-114i-1214	W-114i	CHLOROBENZENE	6.5			100 UG/L	
W-114i-1214	W-114i	CHLOROETHANE	250 D			430 UG/L	
W-114i-1214	W-114i	TETRAHYDROFURAN	790 D			95 UG/L	
W-114i-1214	W-114i	TOLUENE	5.9			790 UG/L	
W-114i-1214	W-114i	TRANS-1,2-DICHLOROETHENE	3.7			100 UG/L	
W-114i-1214	W-114i	ANILINE	6,900 D			53 UG/L	
W-114i-1214	W-114i	CAMPHOR	1,700 D			NA UG/L	
W-114i-1214	W-114i	N,N-DIMETHYLANILINE	51			16 UG/L	
W-114i-1214	W-114i	N-ETHYLANILINE	290 D			NA UG/L	
W-114i-1214	W-114i	N-METHYLANILINE	110 D			NA UG/L	10,797
EW-1-1214	EW-1	1,2-DICHLOROETHANE	2.8			5 UG/L	
EW-1-1214	EW-1	BENZENE	1.4			5 UG/L	
EW-1-1214	EW-1	VINYL CHLORIDE	1.4			2 UG/L	
EW-1-1214	EW-1	ANILINE	6.8			53 UG/L	
EW-1-1214	EW-1	N,N-DIMETHYLANILINE	17			16 UG/L	
EW-1-1214	EW-1	N-METHYLANILINE	14			NA UG/L	43
EW-2-1214	EW-2	1,1-DICHLOROETHANE	6.4			880 UG/L	
EW-2-1214	EW-2	1,1-DICHLOROETHENE	3.7			7 UG/L	
EW-2-1214	EW-2	1,2-DICHLOROBENZENE	6.2			600 UG/L	
EW-2-1214	EW-2	1,2-DICHLOROETHANE	4.8			5 UG/L	
EW-2-1214	EW-2	BENZENE	29			5 UG/L	
EW-2-1214	EW-2	CHLOROBENZENE	8.0			100 UG/L	
EW-2-1214	EW-2	CIS-1,2-DICHLOROETHENE	6.7			70 UG/L	
EW-2-1214	EW-2	TOLUENE	18			790 UG/L	
EW-2-1214	EW-2	TRANS-1,2-DICHLOROETHENE	1.2			100 UG/L	
EW-2-1214	EW-2	TRICHLOROETHENE	2.3			5 UG/L	
EW-2-1214	EW-2	VINYL CHLORIDE	10			2 UG/L	
EW-2-1214	EW-2	ANILINE	37			53 UG/L	
EW-2-1214	EW-2	CAMPHOR	30			NA UG/L	
EW-2-1214	EW-2	N,N-DIMETHYLANILINE	580 D			16 UG/L	
EW-2-1214	EW-2	N-ETHYLANILINE	57			NA UG/L	
EW-2-1214	EW-2	N-METHYLANILINE	72			NA UG/L	872
EW-3-1214	EW-3	1,1-DICHLOROETHANE	11			880 UG/L	
EW-3-1214	EW-3	1,1-DICHLOROETHENE	11			7 UG/L	
EW-3-1214	EW-3	1,2-DICHLOROBENZENE	11			600 UG/L	
EW-3-1214	EW-3	1,4-DICHLOROBENZENE	3.2			75 UG/L	
EW-3-1214	EW-3	1,2-DICHLOROETHANE	3.0			5 UG/L	
EW-3-1214	EW-3	BENZENE	100			5 UG/L	
EW-3-1214	EW-3	CHLOROBENZENE	12			100 UG/L	
EW-3-1214	EW-3	CHLOROETHANE	5.4			430 UG/L	

Appendix B
 Detected Compounds
 Seventy-sixth Quarterly Groundwater Monitoring Event
 December 2014

EW-3-1214	EW-3	CIS-1,2-DICHLOROETHENE	7.4	70 UG/L	
EW-3-1214	EW-3	TETRAHYDROFURAN	11	95 UG/L	
EW-3-1214	EW-3	TOLUENE	38	790 UG/L	
EW-3-1214	EW-3	VINYL CHLORIDE	7.4	2 UG/L	
EW-3-1214	EW-3	ANILINE	220 D	53 UG/L	
EW-3-1214	EW-3	CAMPHOR	70	NA UG/L	
EW-3-1214	EW-3	N,N-DIMETHYLANILINE	370 D	16 UG/L	
EW-3-1214	EW-3	N-ETHYLANILINE	66	NA UG/L	
EW-3-1214	EW-3	N-METHYLANILINE	71	NA UG/L	1,017
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EW-4-1214	EW-4	1,1,1-TRICHLOROETHANE	3.4	200 UG/L	
EW-4-1214	EW-4	1,1-DICHLOROETHANE	29	880 UG/L	
EW-4-1214	EW-4	1,1-DICHLOROETHENE	9.6	7 UG/L	
EW-4-1214	EW-4	1,2-DICHLOROBENZENE	5.4	600 UG/L	
EW-4-1214	EW-4	BENZENE	280 D	5 UG/L	
EW-4-1214	EW-4	CHLOROBENZENE	22	100 UG/L	
EW-4-1214	EW-4	CHLOROETHANE	94	430 UG/L	
EW-4-1214	EW-4	CIS-1,2-DICHLOROETHENE	16	70 UG/L	
EW-4-1214	EW-4	ETHYLBENZENE	1.3	74 UG/L	
EW-4-1214	EW-4	TETRAHYDROFURAN	88	95 UG/L	
EW-4-1214	EW-4	TOLUENE	24	790 UG/L	
EW-4-1214	EW-4	VINYL CHLORIDE	7.8	2 UG/L	
EW-4-1214	EW-4	ANILINE	380 D	53 UG/L	
EW-4-1214	EW-4	CAMPHOR	260 D	NA UG/L	
EW-4-1214	EW-4	N,N-DIMETHYLANILINE	120	.16 UG/L	
EW-4-1214	EW-4	N-ETHYLANILINE	220 D	NA UG/L	
EW-4-1214	EW-4	N-METHYLANILINE	59	NA UG/L	1,620
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EW-5-1214	EW-5	1,1-DICHLOROETHANE	6.1	880 UG/L	
EW-5-1214	EW-5	1,1-DICHLOROETHENE	3.1	7 UG/L	
EW-5-1214	EW-5	BENZENE	320 D	5 UG/L	
EW-5-1214	EW-5	CHLOROBENZENE	23	100 UG/L	
EW-5-1214	EW-5	CHLOROETHANE	11	430 UG/L	
EW-5-1214	EW-5	CIS-1,2-DICHLOROETHENE	170	70 UG/L	
EW-5-1214	EW-5	TETRACHLOROETHENE	1.0	5 UG/L	
EW-5-1214	EW-5	TETRAHYDROFURAN	120	95 UG/L	
EW-5-1214	EW-5	TOLUENE	57	790 UG/L	
EW-5-1214	EW-5	TRANS-1,2-DICHLOROETHENE	1.8	100 UG/L	
EW-5-1214	EW-5	VINYL CHLORIDE	23	2 UG/L	
EW-5-1214	EW-5	ANILINE	550 D	53 UG/L	
EW-5-1214	EW-5	CAMPHOR	90	NA UG/L	
EW-5-1214	EW-5	N,N-DIMETHYLANILINE	120	16 UG/L	
EW-5-1214	EW-5	N-ETHYLANILINE	120	NA UG/L	
EW-5-1214	EW-5	N-METHYLANILINE	55	NA UG/L	1,671
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EW-6a-1214	EW-6a	BENZENE	39	5 UG/L	
EW-6a-1214	EW-6a	CHLOROBENZENE	19	100 UG/L	
EW-6a-1214	EW-6a	CHLOROETHANE	3.0	430 UG/L	
EW-6a-1214	EW-6a	TETRAHYDROFURAN	210 D	95 UG/L	
EW-6a-1214	EW-6a	TOLUENE	1.3	790 UG/L	
EW-6a-1214	EW-6a	ANILINE	250 D	53 UG/L	
EW-6a-1214	EW-6a	CAMPHOR	8.4	NA UG/L	
EW-6a-1214	EW-6a	N,N-DIMETHYLANILINE	6.9	16 UG/L	
EW-6a-1214	EW-6a	N-ETHYLANILINE	46	NA UG/L	

Appendix B
Detected Compounds
Seventy-sixth Quarterly Groundwater Monitoring Event
December 2014

EW-6a-1214	EW-6a	N-METHYLANILINE	28	NA UG/L	612
EW-7-1214	EW-7	1,2-DICHLOROETHANE	8.4	5 UG/L	
EW-7-1214	EW-7	BENZENE	3.9	5 UG/L	
EW-7-1214	EW-7	TETRAHYDROFURAN	65	95 UG/L	
EW-7-1214	EW-7	ANILINE	5.0	53 UG/L	
EW-7-1214	EW-7	N,N-DIMETHYLANILINE	8.9	16 UG/L	
EW-7-1214	EW-7	N-ETHYLANILINE	16	NA UG/L	
EW-7-1214	EW-7	N-METHYLANILINE	11	NA UG/L	118
EW-8-1214	EW-8	1,1,1-TRICHLOROETHANE	160	200 UG/L	
EW-8-1214	EW-8	1,1,2-TRICHLOROETHANE	2.3	5 UG/L	
EW-8-1214	EW-8	1,1-DICHLOROETHANE	110	880 UG/L	
EW-8-1214	EW-8	1,1-DICHLOROETHENE	21	7 UG/L	
EW-8-1214	EW-8	1,2-DICHLOROBENZENE	260 D	600 UG/L	
EW-8-1214	EW-8	1,2-DICHLOROETHANE	8.0	5 UG/L	
EW-8-1214	EW-8	1,3-DICHLOROBENZENE	4.3	6.6 UG/L	
EW-8-1214	EW-8	1,4-DICHLOROBENZENE	39	75 UG/L	
EW-8-1214	EW-8	BENZENE	77	5 UG/L	
EW-8-1214	EW-8	CHLOROBENZENE	190	100 UG/L	
EW-8-1214	EW-8	CHLOROETHANE	35	430 UG/L	
EW-8-1214	EW-8	CHLOROFORM	1.8	80 UG/L	
EW-8-1214	EW-8	CIS-1,2-DICHLOROETHENE	110	70 UG/L	
EW-8-1214	EW-8	ETHYLBENZENE	13	74 UG/L	
EW-8-1214	EW-8	TETRAHYDROFURAN	13	95 UG/L	
EW-8-1214	EW-8	TOLUENE	1500 D	790 UG/L	
EW-8-1214	EW-8	TRANS-1,2-DICHLOROETHENE	4.3	100 UG/L	
EW-8-1214	EW-8	TRICHLOROETHENE	1.4	5 UG/L	
EW-8-1214	EW-8	VINYL CHLORIDE	34	2 UG/L	
EW-8-1214	EW-8	XYLENE (TOTAL)	33	280 UG/L	
EW-8-1214	EW-8	ANILINE	410 D	53 UG/L	
EW-8-1214	EW-8	CAMPHOR	250 D	NA UG/L	
EW-8-1214	EW-8	N,N-DIMETHYLANILINE	640 D	16 UG/L	
EW-8-1214	EW-8	N-ETHYLANILINE	200 D	NA UG/L	
EW-8-1214	EW-8	N-METHYLANILINE	180 D	NA UG/L	4,297
EW-9-1214	EW-9	1,1-DICHLOROETHANE	12	880 UG/L	
EW-9-1214	EW-9	1,1-DICHLOROETHENE	15	7 UG/L	
EW-9-1214	EW-9	1,2-DICHLOROETHANE	1.6	5 UG/L	
EW-9-1214	EW-9	BENZENE	17	5 UG/L	
EW-9-1214	EW-9	CHLOROBENZENE	2.3	100 UG/L	
EW-9-1214	EW-9	CHLOROETHANE	6.2	430 UG/L	
EW-9-1214	EW-9	CIS-1,2-DICHLOROETHENE	1.0	70 UG/L	
EW-9-1214	EW-9	TETRAHYDROFURAN	42	95 UG/L	
EW-9-1214	EW-9	TOLUENE	20	790 UG/L	
EW-9-1214	EW-9	VINYL CHLORIDE	190	2 UG/L	
EW-9-1214	EW-9	ANILINE	18	53 UG/L	
EW-9-1214	EW-9	CAMPHOR	25	NA UG/L	
EW-9-1214	EW-9	N,N-DIMETHYLANILINE	270 D	16 UG/L	
EW-9-1214	EW-9	N-ETHYLANILINE	58	NA UG/L	
EW-9-1214	EW-9	N-METHYLANILINE	64	NA UG/L	742
EW-10-1214	EW-10	1,1,1-TRICHLOROETHANE	47	200 UG/L	
EW-10-1214	EW-10	1,1-DICHLOROETHANE	24	880 UG/L	

Appendix B
Detected Compounds
Seventy-sixth Quarterly Groundwater Monitoring Event
December 2014

EW-10-1214	EW-10	1,1-DICHLOROETHENE	4.4	7 UG/L	
EW-10-1214	EW-10	1,2-DICHLOROBENZENE	220 D	600 UG/L	
EW-10-1214	EW-10	1,2-DICHLOROETHANE	28	5 UG/L	
EW-10-1214	EW-10	1,3-DICHLOROBENZENE	11	6.6 UG/L	
EW-10-1214	EW-10	1,4-DICHLOROBENZENE	32	75 UG/L	
EW-10-1214	EW-10	BENZENE	5.9	5 UG/L	
EW-10-1214	EW-10	CARBON TETRACHLORIDE	68	5 UG/L	
EW-10-1214	EW-10	CHLOROBENZENE	30	100 UG/L	
EW-10-1214	EW-10	CHLOROETHANE	9.8	430 UG/L	
EW-10-1214	EW-10	CHLOROFORM	8.5	80 UG/L	
EW-10-1214	EW-10	CIS-1,2-DICHLOROETHENE	110	70 UG/L	
EW-10-1214	EW-10	ETHYLBENZENE	8.1	74 UG/L	
EW-10-1214	EW-10	TETRACHLOROETHENE	170	5 UG/L	
EW-10-1214	EW-10	TOLUENE	61	790 UG/L	
EW-10-1214	EW-10	TRANS-1,2-DICHLOROETHENE	1.4	100 UG/L	
EW-10-1214	EW-10	TRICHLOROETHENE	55	5 UG/L	
EW-10-1214	EW-10	VINYL CHLORIDE	33	2 UG/L	
EW-10-1214	EW-10	XYLENE (TOTAL)	57	280 UG/L	
EW-10-1214	EW-10	ANILINE	97	53 UG/L	
EW-10-1214	EW-10	CAMPHOR	28	NA UG/L	
EW-10-1214	EW-10	N,N-DIMETHYLANILINE	370 D	16 UG/L	
EW-10-1214	EW-10	N-ETHYLANILINE	83	NA UG/L	
EW-10-1214	EW-10	N-METHYLANILINE	140 D	NA UG/L	1,702
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EW-11-1214	EW-11	1,1,1-TRICHLOROETHANE	20	200 UG/L	
EW-11-1214	EW-11	1,1-DICHLOROETHANE	13	880 UG/L	
EW-11-1214	EW-11	1,1-DICHLOROETHENE	3.9	7 UG/L	
EW-11-1214	EW-11	1,2-DICHLOROBENZENE	230 D	600 UG/L	
EW-11-1214	EW-11	1,2-DICHLOROETHANE	14	5 UG/L	
EW-11-1214	EW-11	1,3-DICHLOROBENZENE	9.0	6.6 UG/L	
EW-11-1214	EW-11	1,4-DICHLOROBENZENE	37	75 UG/L	
EW-11-1214	EW-11	BENZENE	9.5	5 UG/L	
EW-11-1214	EW-11	CHLOROBENZENE	49	100 UG/L	
EW-11-1214	EW-11	CHLOROETHANE	4.0	430 UG/L	
EW-11-1214	EW-11	CHLOROFORM	12	80 UG/L	
EW-11-1214	EW-11	CIS-1,2-DICHLOROETHENE	57	70 UG/L	
EW-11-1214	EW-11	ETHYLBENZENE	4.0	74 UG/L	
EW-11-1214	EW-11	TETRACHLOROETHENE	56	5 UG/L	
EW-11-1214	EW-11	TOLUENE	30	790 UG/L	
EW-11-1214	EW-11	TRANS-1,2-DICHLOROETHENE	1.6	100 UG/L	
EW-11-1214	EW-11	TRICHLOROETHENE	30	5 UG/L	
EW-11-1214	EW-11	VINYL CHLORIDE	16	2 UG/L	
EW-11-1214	EW-11	XYLENE (TOTAL)	24	280 UG/L	
EW-11-1214	EW-11	ANILINE	280 D	53 UG/L	
EW-11-1214	EW-11	CAMPHOR	25	NA UG/L	
EW-11-1214	EW-11	N,N-DIMETHYLANILINE	770 D	16 UG/L	
EW-11-1214	EW-11	N-ETHYLANILINE	61	NA UG/L	
EW-11-1214	EW-11	N-METHYLANILINE	310 D	NA UG/L	2,066

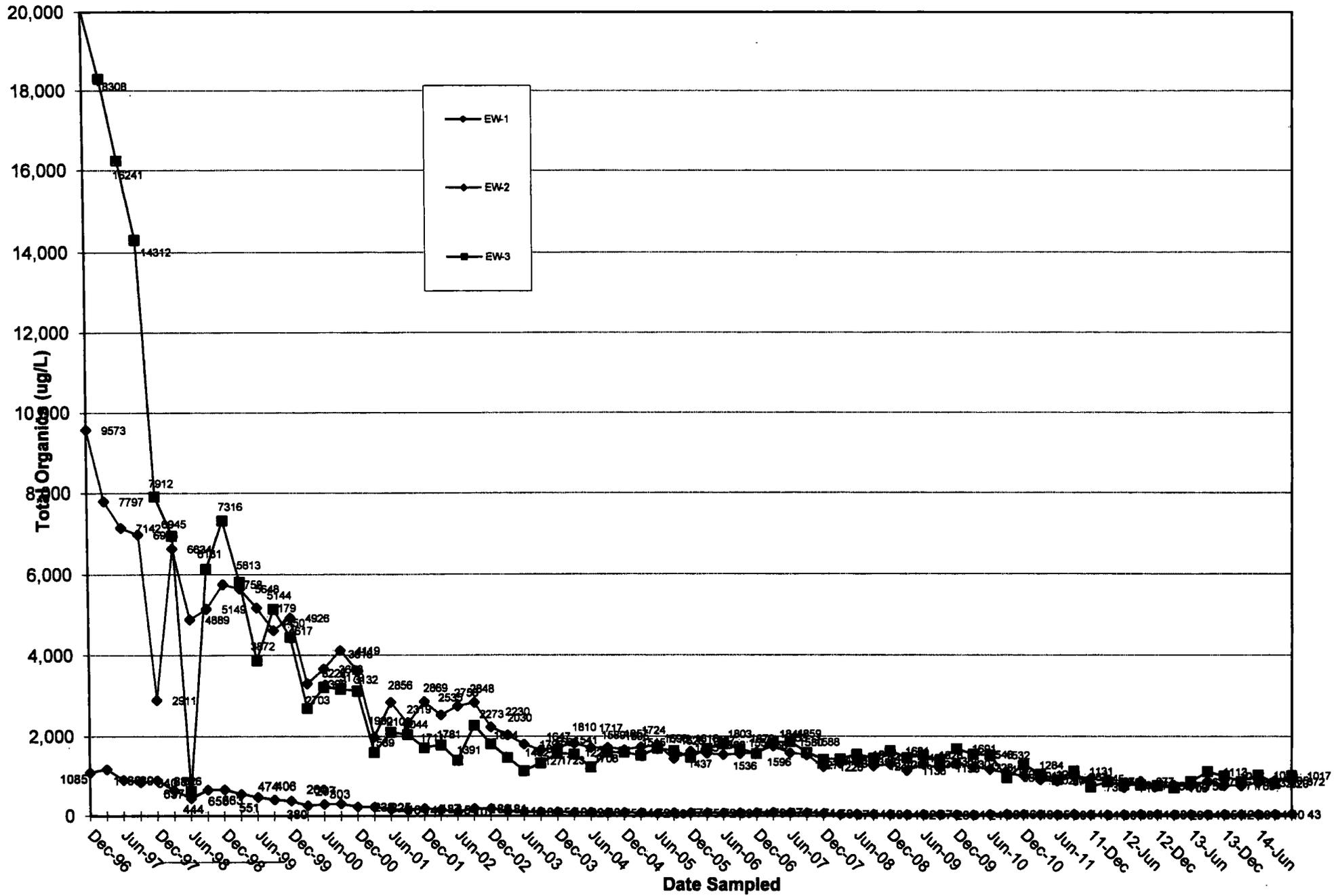
*Results that exceed the Michigan Residential Groundwater Health-Based Drinking Water Values are bolded.

**Michigan Residential Groundwater Health-Based Drinking Water Values, MDEQ RRD Operational Memorandum 1, December 10, 2004, updated January 23, 2006. Values were not available from Operational Memorandum 1 for those compounds where NA is listed.

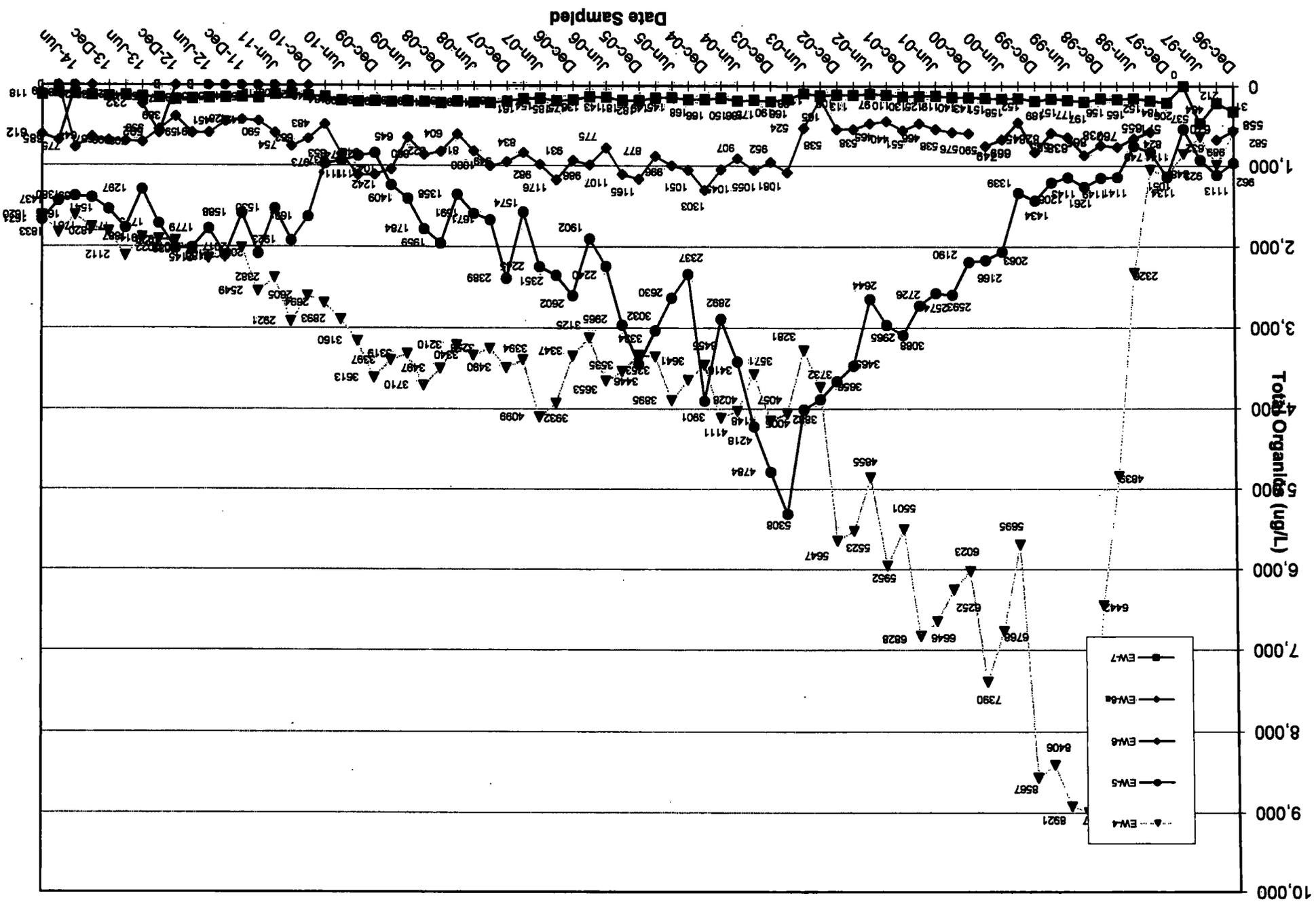
Appendix C

Trend Graphs for Total Organic Concentrations

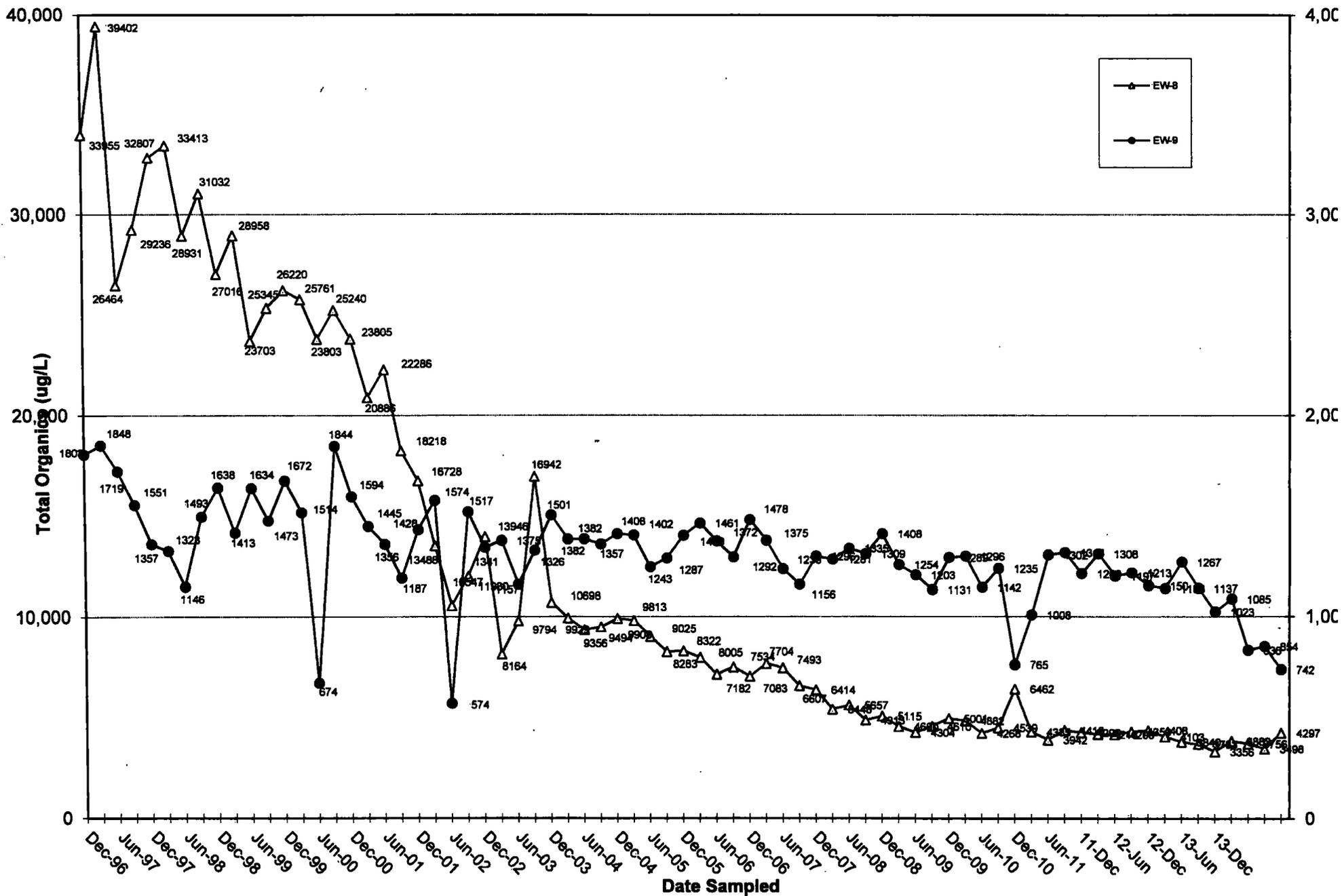
Extraction Wells



Extraction Wells



Extraction Wells



Extraction Wells

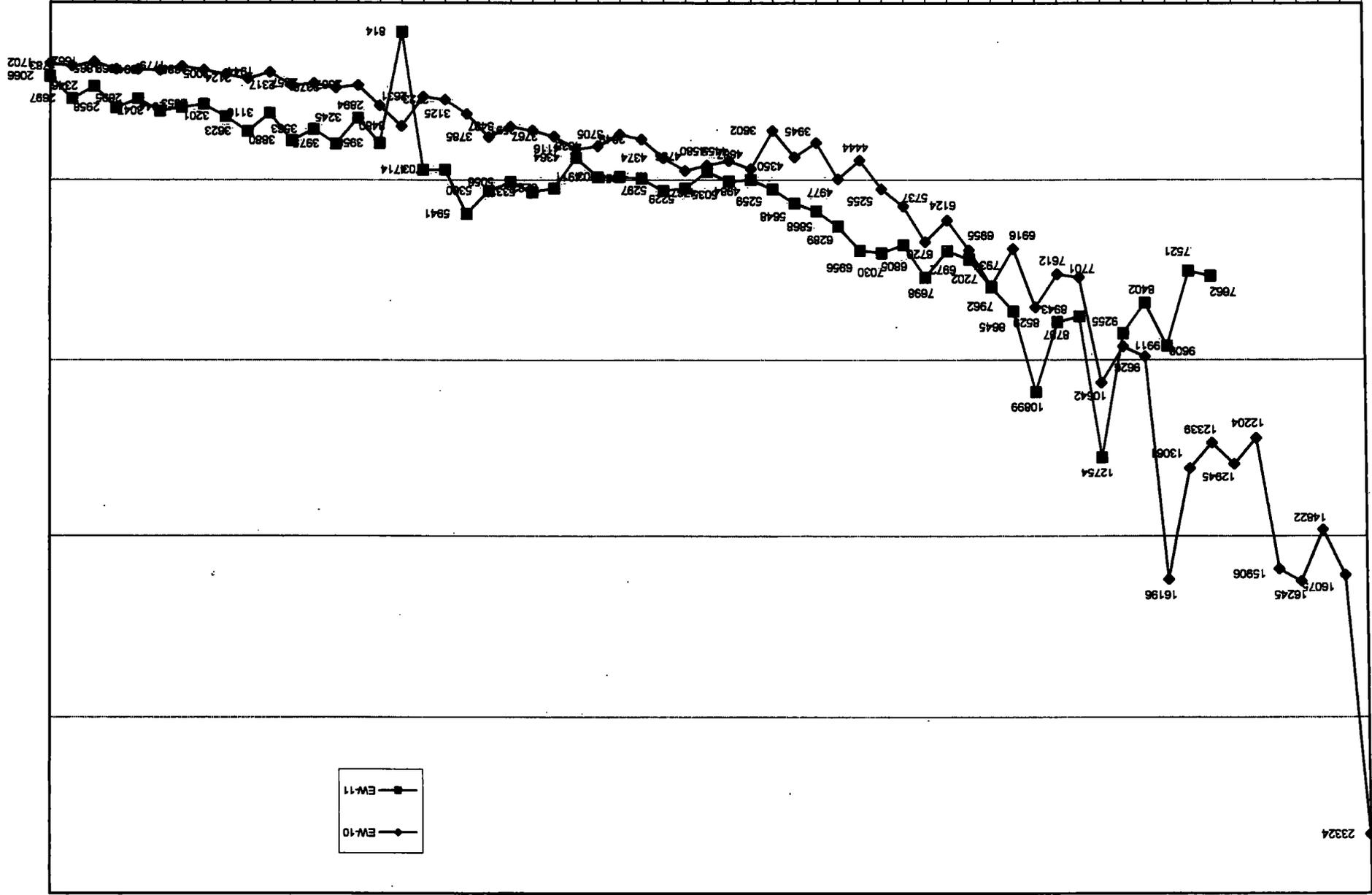
EW-11
EW-10

25,000
20,000
15,000
10,000
5,000
0

Total Organics (ug/L)

Date Sampled

14-Sep
14-Jun
14-Apr
13-Dec
13-Sep
13-Jun
13-Mar
12-Dec
12-Sep
12-Jun
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99-Sep
99-Jun
99-Mar



**Ott/Story Superfund Site
Groundwater Treatment Plant
Muskegon, Michigan**

**Groundwater Monitoring Report
December 2014**

**Prepared for:
Michigan Department of Environmental Quality**

Project No. G140754B

ftc&h

**Fishbeck, Thompson, Carr & Huber
engineers • scientists • architects • constructors**

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ABBREVIATIONS

AVE	Average
C	Celsius
CCV	Continuing Calibration Verification Sample
CFM	Cubic Feet per Minute
COC	Chain of Custody
CU.FT.	Cubic Feet
CVS	ERA certified Calibration Verification Source
EFF	Effluent
EICP	Extracted Ion Current Profiles
EPA	Environmental Protection Agency
EW	Extraction Well
F	Fahrenheit
FID	Flame Ionization Detector
GAC	Granular Activated Carbon
GAL	Gallons
GCMS	Gas Chromatograph and Mass Spectrometer
GWTB	Groundwater Treatment Building
HRS	Hours
ICV	Initial Calibration Verification
INF	Influent
LBS	Pounds
LCD	Laboratory Control Duplicate
LCS	Laboratory Control Sample
MDEQ	Michigan Department of Environmental Quality
mg/L	Milligram per Liter
MGD	Million Gallons per Day
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MW	Monitoring Well
NA	Non-applicable
NC	Not Calculated
NTU	Nephelometric Turbidity
ORP	Oxidation – Reduction Potential
PPE	Personal Protective Equipment
PSI	Pounds per Square Inch
RF	Response Factor
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SP	Sample Port
SVOC	Semivolatile Organic Compound
TEMP	Temperature
TOU	Thermal Oxidation Unit
U	Undetected
ug/L	Micrograms per Liter (parts per billion)
VOC	Volatile Organic Compound
VOP	Variable Operations Plan
VSS	Volatile Suspended Solids

CASE NARRATIVE

SAMPLING

Sampling for the seventy-sixth quarterly groundwater sampling event at the Ott/Story Superfund site was performed December 1-3, 2014. Samples were collected from sample ports located on the discharge lines of eleven extraction wells, after between 3 and 4.5 gallons of groundwater were first flushed through the sample ports. EW-6 was sampled this event and EW-6a is off. EW-8 was off for rehabilitation, but was run about two hours prior to sampling on December 1, then was turned off again. EW-11 was also off for rehabilitation, and the samples were collected from this well from a valve on a contractor's pump and equipment while pump testing was being performed on December 3. Samples were collected from monitoring wells W-110i and W-114i after purging 3.0 gallons (.32 water columns and .35 water columns, respectively), using the installed dedicated bladder pumps at a pumping rate of 400 mL/min.

For the extraction wells, sample temperature, pH, dissolved oxygen (D.O.), Oxidation-Reduction Potential (ORP) and conductivity were measured using calibrated field instruments mounted in the Micropurge system sonde and the values were recorded on Field Data Forms. A separate meter was used to measure and record turbidity levels of the samples. Measurements for these same parameters were collected using the Micropurge System flow-through cell for the monitoring wells and stored in a field processor. This data was later downloaded and used to generate the tables and graphs accompanying this report. The results were also recorded on the field data sheets for these wells and after measurements leveled out, generally after 20 to 25 minutes of purging, the pump discharge tubing was disconnected from the flow cell and samples were collected.

Most of the extraction wells had been off for periods of time before the sampling event for rehabilitation and pump testing. Static water levels were measured and recorded for the site's monitoring wells and piezometers on December 8, 2014. No problems were noted during the collection of the groundwater samples.

SAMPLE HANDLING

All volatile sample vials used contained an acid preservative. All sample containers were placed on ice in a cooler in the field immediately after collection. The volatile vials and semivolatile ambers were stored in the in-house laboratory refrigerator maintained at 4°C until analysis of the samples was completed.

SAMPLE ANALYSIS

All volatile and semivolatile samples collected during this quarterly were analyzed on-site.

The analytical procedures performed on the groundwater samples follow SW-846 Methods 8260B and 8270C. Sample analysis was performed within holding times and according to the referenced methods. The USACE/NELAC volatile QC and surrogate windows were implemented this quarterly in an effort to widen the windows for further on-site QC development. No significant problems were encountered during the analysis of the samples.

Two minor calibration issues occurred during the analysis of volatile samples. The Initial Calibration Verification (ICV) source standard had a percent deviation that was low and outside the 25% criterion for dichlorodifluoromethane. Reanalysis of the ICV did not change the outcome. The data for this analyte is considered estimated and is flagged with an asterisk, "*". Only sample EW-1-1214 was affected.

The Initial Calibration Verification (ICV) source standard had a percent deviation that was high and outside the 25% criterion for chloromethane. Reanalysis of the ICV did not change the outcome. Since this analyte increased in sensitivity and was not detected in any sample, no data requires qualification.

One minor calibration issue occurred during the analysis of semivolatile samples. The Continuing Calibration Verification (CCV) standard had a percent deviation that was low and outside the 25% criterion for carbazole. Reanalysis of the CCV did not change the outcome. Although this analyte has never been detected in any sample, the reporting limit for this analyte must be considered estimated and is flagged with an asterisk "*", for all associated samples.

QUALITY CONTROL SUMMARY

The volatile trip blanks did not contain any target analytes at or above one-half the reported detection limits.

The volatile and semivolatile method blanks did not contain any target analytes at or above one-half the reported detection limits.

Analysis of surrogates was performed on all volatile and semivolatile samples. All percent recoveries meet EPA requirements for validity, with a few exceptions.

The Method 8260B 1,2-dichlorobenzene-d₄ surrogate recovery was high, but inside the quality control limits for samples, EW-8-1214, EW-10-1214, and EW-11-1214. The surrogate interference was due to high concentrations of 1,2-dichlorobenzene in the samples. Reanalysis of the samples at a greater dilution eliminated the matrix interference and generated normal percent recoveries for this surrogate.

The Method 8270C 2,4,6-tribromophenol surrogate recovery was low and outside the control limits in the dilution of samples EW-3-1214, EW-5-1214, EW-11-1214 and Dup-1-1214, and 2,4,6-tribromophenol and 2-fluorophenol surrogate recoveries were low in the dilution of sample

EW-6-1214. Poor recovery is common for a diluted sample. The undiluted analyses of these samples generated acceptable surrogate recoveries.

The Method 8270C nitrobenzene-d5 surrogate recovery was outside the quality control limits in sample W-114i-1214. Multiple analyses indicate there is matrix interference due to a high concentration of n,n-dimethylaniline in the sample. The surrogate could not be calculated and is flagged with "MI", indicating matrix interference.

At a minimum, a laboratory control sample (LCS) and matrix spike (MS) were analyzed along with the samples to provide a measure of bias and accuracy. In all cases, either a laboratory control sample/laboratory control sample duplicate (LCD) pair and/or a matrix spike/matrix spike duplicate (MSD) pair were analyzed to provide a measure of precision. All laboratory control sample and laboratory control sample duplicate recoveries were within the quality control limits.

In QC set BNA120201W, the percent recovery was high and outside the QC limits for phenol in the LCS and LCD, (LS/LD120201). Reanalysis of the QC did not change the outcome. Since phenol increased in sensitivity and was not detected in any sample, and the MS and MSD generated acceptable percent recoveries for this analyte, no date requires qualification. Also in this QC set, 2,4-dinitrophenol had a RPD outside the quality control windows in the LSC/LCD pair. Since an acceptable RPD was generated between the MS/MSD pair, no further corrective action was taken.

Duplicate field samples were taken for every 10 wells sampled for a total of 2. The reproducibility between duplicates was good. All discrepancies can be attributed to differences at low concentrations or dilutions between the samples and their corresponding blind duplicates.

A matrix spike and matrix spike duplicate were taken for every 20 wells sampled for a minimum total of 2. An evaluation of matrix spike and matrix spike duplicate quality control results follows:

EW-9-1214

The Method 8270C analytes, nitrobenzene and n,n-dimethylaniline had poor recoveries due to the high concentration of n,n-dimethylaniline in the unspiked sample. The results could not be calculated and the analyte recoveries are flagged with "MI", indicating matrix interference. Also in this QC set, hexachlorocyclopentadiene had a RPD outside the quality control windows in the MS/MSD pair. Since an acceptable RPD was generated between the LCS/LCD pair, no further corrective action was taken.

EW-1-1214

The Method 8270C analyte n-methylaniline had a RPD outside the quality control windows in the MS/MSD pair. Since an acceptable RPD was generated between the LCS/LCD pair, no further corrective action was taken.

DW-300

All quality control elements were within the established criteria for volatiles.

Qualifier Key for lab sample results and QA/QC results follows:

U - Compound not detected / J - Estimated value / B - Analyte present in blank

E - Exceeded the range of calibration / D - Quantified from a dilution

* Results do not meet QC acceptance criteria

TAP 1
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 MONITORING WELLS-VOLATILES

Date Sampled: 12/02/14 12/02/14
 Date Analyzed: 12/04/14 12/04/14

	DETECTION LIMITS	W-110i -1214	W-114i-1214
Dichlorodifluoromethane	1.0	U	U
Chloromethane	5.0	U	U
Vinyl Chloride	1.0	U	U
Bromomethane	5.0	U	U
Chloroethane	1.0	13	250 D
Trichlorofluoromethane	1.0	U	U
1,1-Dichloroethene	1.0	U	U
Acetone	10	U	U
Carbon Disulfide	5.0	U	U
trans-1,2-Dichloroethene	1.0	U	3.7
1,1-Dichloroethane	1.0	U	U
cis-1,2-Dichloroethene	1.0	U	U
Chloroform	1.0	U	U
Tetrahydrofuran	5.0	740 D	790 D
1,1,1-Trichloroethane	1.0	U	U
Carbon Tetrachloride	1.0	U	U
1,2-Dichloroethane	1.0	U	U
Benzene	1.0	3.4	690 D
Trichloroethene	1.0	U	U
1,2-Dichloropropane	1.0	U	U
Bromodichloromethane	1.0	U	U
cis-1,3-Dichloropropene	1.0	U	U
Toluene	1.0	U	5.9
trans-1,3-Dichloropropene	1.0	U	U
1,1,2-Trichloroethane	1.0	U	U
Tetrachloroethene	1.0	U	U
Dibromochloromethane	1.0	U	U
Chlorobenzene	1.0	U	6.5
Ethylbenzene	1.0	U	U

TABLE 1
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 MONITORING WELLS-VOLATILES

Date Sampled: 12/02/14 12/02/14
 Date Analyzed: 12/04/14 12/04/14
 DETECTION LIMITS W-110i-1214 W-114i-1214

	DETECTION LIMITS	W-110i-1214	W-114i-1214
Xylenes (total)	3.0	U	U
Styrene	1.0	U	U
Bromoform	1.0	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U
1,3-Dichlorobenzene	2.0	U	U
1,4-Dichlorobenzene	2.0	U	U
1,2-Dichlorobenzene	2.0	U	U

Total Volatiles 756 1746

D=Quantified from a dilution,
 *See Narrative

Surrogates	Spike	Percent Recoveries	
1,2-Dichloroethane-d4	50	96	98
Toluene-d8	50	98	99
4-Bromofluorobenzene	50	103	104
1,2-Dichlorobenzene-d4	50	100	100

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKOGON, MICHIGAN
DECEMBER, 2014
EXTRACTION WELLS-VOLATILES

Date Sampled:		12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/01/14	12/01/14	12/01/14	12/03/14
Date Analyzed:	DETECTION LIMITS	12/02/14	12/03/14	12/03/14	12/03/14	12/04/14	12/03/14	12/03/14	12/04/14	12/04/14	12/04/14	12/04/14
		EW-1-1214	EW-2-1214	EW-3-1214	EW-4-1214	EW-5-1214	EW-6-1214	EW-7-1214	EW-8-1214	EW-9-1214	EW-10-1214	EW-11-1214
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	1.4	10	7.4	7.8	23	U	U	34	190	33	16
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	5.4	94	11	3.0	U	35	6.2	9.8	4.0
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	3.7	11	9.6	3.1	U	U	21	15	4.4	3.9
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	1.2	U	U	1.8	U	U	4.3	U	1.4	1.6
1,1-Dichloroethane	1.0	U	6.4	11	29	6.1	U	U	110	12	24	13
cis-1,2-Dichloroethene	1.0	U	6.7	7.4	16	170	U	U	110	1.0	110	57
Chloroform	1.0	U	U	U	U	U	U	U	1.8	U	8.5	12
Tetrahydrofuran	5.0	U	U	11	88	120	210 D	65	13	42	U	U
1,1,1-Trichloroethane	1.0	U	U	U	3.4	U	U	U	160	U	47	20
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	68	U
1,2-Dichloroethane	1.0	2.8	4.8	3.0	U	U	U	8.4	8.0	1.6	28	14
Benzene	1.0	1.4	29	100	280 D	320 D	39	3.9	77	17	5.9	9.5
Trichloroethene	1.0	U	2.3	U	U	U	U	U	1.4	U	55	30
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	18	38	24	57	1.3	U	1500 D	20	61	30
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	2.3	U	U	U
Tetrachloroethene	1.0	U	U	U	U	1.0	U	U	U	U	170	56
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	8.0	12	22	23	19	U	190	2.3	30	49
Ethylbenzene	1.0	U	U	U	1.3	U	U	U	13	U	8.1	4.0

TABLE I
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014
EXTRACTION WELLS-VOLATILES

Date Sampled:	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/01/14	12/01/14	12/01/14	12/03/14
Date Analyzed:	12/02/14	12/03/14	12/03/14	12/03/14	12/03/14	12/04/14	12/03/14	12/03/14	12/04/14	12/04/14	12/04/14	12/04/14
	DETECTION LIMITS	EW-1-1214	EW-2-1214	EW-3-1214	EW-4-1214	EW-5-1214	EW-6-1214	EW-7-1214	EW-8-1214	EW-9-1214	EW-10-1214	EW-11-1214
Xylenes (total)	3.0	U	U	U	U	U	U	U	33	U	57	24
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	4.3	U	11	9.0
1,4-Dichlorobenzene	2.0	U	U	3.2	U	U	U	U	39	U	32	37
1,2-Dichlorobenzene	2.0	U	6.2	11	5.4	U	U	U	260 D	U	220 D	230 D
Total Volatiles		5.6	96	220	581	736	272	77	2617	307	984	620

D=Quantified from a dilution, *See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	98	99	100	98	97	99	98	97	96	94	96
Toluene-d8	50	104	97	97	98	100	97	97	101	99	101	100
4-Bromofluorobenzene	50	102	105	105	105	105	107	106	105	104	105	104
1,2-Dichlorobenzene-d4	50	96	105	103	102	100	102	102	143	100	139	141

TAE
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 MONITORING WELLS - SEMIVOLATILES

Date Sampled: Date Extracted:	DETECTION LIMITS	12/02/14 12/02/14 W-110i -1214	12/02/14 12/02/14 W-114i-1214
bis(2-Chloroethyl)ether	5.0	U	U
2-Chlorophenol	5.0	U	U
Phenol	5.0	U	U
1,3-Dichlorobenzene	5.0	U	U
1,4-Dichlorobenzene	5.0	U	U
1,2-Dichlorobenzene	5.0	U	U
Benzyl alcohol	20	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U
2-Methylphenol	5.0	U	U
3/4-Methylphenol	5.0	U	U
n-Nitroso-di-n-propylamine	5.0	U	U
Hexachloroethane	5.0	U	U
Nitrobenzene	5.0	U	U
Isophorone	5.0	U	U
2-Nitrophenol	5.0	U	U
2,4-Dimethylphenol	5.0	U	U
bis(2-Chloroethoxy)methane	5.0	U	U
Benzoic acid	50	U	U
1,2,4-Trichlorobenzene	5.0	U	U
2,4-Dichlorophenol	5.0	U	U
Naphthalene	5.0	U	U
4-Chloroaniline	20	U	U
Hexachloro-1,3-butadiene	5.0	U	U
4-Chloro-3-methylphenol	5.0	U	U
2-Methylnaphthalene	5.0	U	U
Hexachlorocyclopentadiene	5.0	U	U
2,4,6-Trichlorophenol	5.0	U	U
2,4,5-Trichlorophenol	5.0	U	U
2-Chloronaphthalene	5.0	U	U

TABLE 2
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 MONITORING WELLS - SEMIVOLATILES

Date Sampled: 12/02/14 12/02/14
 Date Extracted: 12/02/14 12/02/14

	DETECTION LIMITS	W-110i -1214	W-114i-1214
2-Nitroaniline	20	U	U
Dimethylphthalate	5.0	U	U
Acenaphthylene	5.0	U	U
2,6-Dinitrotoluene	5.0	U	U
3-Nitroaniline	20	U	U
Acenaphthene	5.0	U	U
Dibenzofuran	5.0	U	U
2,4-Dinitrotoluene	5.0	U	U
4-Nitrophenol	20	U	U
2,4-Dinitrophenol	20	U	U
Diethylphthalate	5.0	U	U
Fluorene	5.0	U	U
4-Chlorophenyl-phenylether	5.0	U	U
4-Nitroaniline	20	U	U
4,6-Dinitro-2-methylphenol	20	U	U
n-Nitrosodiphenylamine	5.0	U	U
4-Bromophenyl-phenylether	5.0	U	U
Hexachlorobenzene	5.0	U	U
Pentachlorophenol	20	U	U
Phenanthrene	5.0	U	U
Carbazole	5.0	U	U
Anthracene	5.0	U	U
Di-n-butylphthalate	5.0	U	U
Fluoranthene	5.0	U	U
Pyrene	5.0	U	U
Butylbenzylphthalate	5.0	U	U
Benzo(a)anthracene	5.0	U	U
Chrysene	5.0	U	U
3,3'-Dichlorobenzidine	20	U	U

TABLE
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 MONITORING WELLS - SEMIVOLATILES

Date Sampled: Date Extracted:	DETECTION LIMITS	12/02/14	12/02/14
		12/02/14	12/02/14
		W-110i -1214	W-114i-1214
bis(2-Ethylhexyl)phthalate	5.0	U	U
Di-n-octylphthalate	5.0	U	U
Benzo(b)fluoranthene	5.0	U	U
Benzo(k)fluoranthene	5.0	U	U
Benzo(a)pyrene	5.0	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U
Dibenzo(a,h)anthracene	5.0	U	U
Benzo(g,h,i)perylene	5.0	U	U
Camphor	5.0	140 D	1700 D
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U
2-Ethylaniline	5.0	U	U
n,n-Dimethylaniline	5.0	U	51
n-Ethylaniline	5.0	8.5	290 D
n-Methylaniline	5.0	11	110 D
Tetramethylurea	5.0	8.2	U
Aniline	5.0	5.2	6900 D
Total Semivolatiles		173	9051

D=Quantified from a dilution, * See Narrative

Surrogates	Spike	Percent Recoveries	
2-Fluorophenol	50	40	50
Phenol-d6	50	19	36
Nitrobenzene-d5	100	69	MI
2-Fluorobiphenyl	100	50	51
2,4,6-Tribromophenol	50	94	112
p-Terphenyl-d14	100	102	102

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

EXTRACTION WELLS-SEMIVOLATILES

Date Sampled:		12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/01/14	12/01/14	12/01/14	12/03/14
Date Extracted:	DETECTION LIMITS	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/04/14
		EW-1-1214	EW-2-1214	EW-3-1214	EW-4-1214	EW-5-1214	EW-6-1214	EW-7-1214	EW-8-1214	EW-9-1214	EW-10-1214	EW-11-1214
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	5.8	5.7
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	24	U	17	23
1,2-Dichlorobenzene	5.0	U	U	7.8	U	U	U	U	160 D	U	120	150 D
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

DECEMBER, 2014

EXTRACTION WELLS-SEMIVOLATILES

Date Sampled:	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/01/14	12/01/14	12/01/14	12/03/14
Date Extracted:	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/04/14
	DETECTION LIMITS	EW-1-1214	EW-2-1214	EW-3-1214	EW-4-1214	EW-5-1214	EW-6-1214	EW-7-1214	EW-8-1214	EW-9-1214	EW-10-1214	EW-11-1214
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U*
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

EXTRACTION WELLS-SEMIVOLATILES

Date Sampled:		12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/01/14	12/01/14	12/01/14	12/03/14
Date Extracted:	DETECTION LIMITS	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/02/14	12/04/14
		EW-1-1214	EW-2-1214	EW-3-1214	EW-4-1214	EW-5-1214	EW-6-1214	EW-7-1214	EW-8-1214	EW-9-1214	EW-10-1214	EW-11-1214
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	30	70	260 D	90	8.4	U	250 D	25	28	25
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	17	580 D	370 D	120	120	6.9	8.9	640 D	270 D	370 D	770 D
n-Ethylaniline	5.0	U	57	66	220 D	120	46	16	200 D	58	83	61
n-Methylaniline	5.0	14	72	71	59	55	28	11	180 D	64	140 D	310 D
Tetramethylurea	5.0	U	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	6.8	37	220 D	380 D	550 D	250 D	5.0	410 D	18	97	280 D
Total Semivolatiles		38	776	805	1039	935	339	41	1864	435	861	1625

D=Quantified from a dilution, * See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	40	46	47	39	40	30	36	42	38	39	46
Phenol-d6	50	29	35	32	20	21	23	27	28	29	29	32
Nitrobenzene-d5	100	64	73	80	66	68	53	55	72	63	67	72
2-Fluorobiphenyl	100	74	88	82	74	76	64	58	79	79	79	80
2,4,6-Tribromophenol	50	93	117	93	89	93	78	77	100	97	109	96
p-Terphenyl-d14	100	91	103	98	90	84	82	79	97	94	98	96

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 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC DUPLICATES - VOLATILES

Date Sampled:		12/01/14	12/01/14	12/02/14	12/02/14
Date Analyzed:	DETECTION	12/04/14	12/04/14	12/03/14	12/03/14
	LIMITS	EW-9-1214	Dup-1-1214	EW-7-1214	Dup-2-1214
Dichlorodifluoromethane	1.0	U	U	U	U
Chloromethane	5.0	U	U	U	U
Vinyl Chloride	1.0	190	200	U	U
Bromomethane	5.0	U	U	U	U
Chloroethane	1.0	6.2	6.5	U	U
Trichlorofluoromethane	1.0	U	U	U	U
1,1-Dichloroethene	1.0	15	12	U	U
Acetone	10	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U
1,1-Dichloroethane	1.0	12	12	U	U
cis-1,2-Dichloroethene	1.0	1.0	U	U	U
Chloroform	1.0	U	U	U	U
Tetrahydrofuran	5.0	42	41	65	68
1,1,1-Trichloroethane	1.0	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U
1,2-Dichloroethane	1.0	1.6	1.6	8.4	8.2
Benzene	1.0	17	17	3.9	4.0
Trichloroethene	1.0	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U
Toluene	1.0	20	20	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U
Chlorobenzene	1.0	2.3	2.3	U	U
Ethylbenzene	1.0	U	U	U	U

TABLE 3
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC DUPLICATES - VOLATILES

Date Sampled:		12/01/14	12/01/14	12/02/14	12/02/14
Date Analyzed:	DETECTION	12/04/14	12/04/14	12/03/14	12/03/14
	LIMITS	EW-9-1214	Dup-1-1214	EW-7-1214	Dup-2-1214
Xylenes (total)	3.0	U	U	U	U
Styrene	1.0	U	U	U	U
Bromoform	1.0	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U

D=Quantified from a dilution, *See Narrative

Surrogates	Spike	Percent Recoveries			
1,2-Dichloroethane-d4	50	96	97	98	98
Toluene-d8	50	99	99	97	96
4-Bromofluorobenzene	50	104	104	106	104
1,2-Dichlorobenzene-d4	50	100	99	102	103

TABLE 4
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC DUPLICATES - SEMIVOLATILES

Date Sampled: Date Extracted:	DET. LIMITS	12/01/14 12/02/14 EW-9-1214	12/01/14 12/02/14 Dup-1-1214	12/02/14 12/02/14 EW-7-1214	12/02/14 12/02/14 Dup-2-1214
bis(2-Chloroethyl)ether	5.0	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U
Phenol	5.0	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U
Benzyl alcohol	20	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U
2-Methylphenol	5.0	U	U	U	U
4-Methylphenol	5.0	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U
Hexachloroethane	5.0	U	U	U	U
Nitrobenzene	5.0	U	U	U	U
Isophorone	5.0	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U
Benzoic acid	50	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U
Naphthalene	5.0	U	U	U	U
4-Chloroaniline	20	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U

TABLE 4
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC DUPLICATES - SEMIVOLATILES

Date Sampled:		12/01/14	12/01/14	12/02/14	12/02/14
Date Extracted:	DET.	12/02/14	12/02/14	12/02/14	12/02/14
	LIMITS	EW-9-1214	Dup-1-1214	EW-7-1214	Dup-2-1214
2-Nitroaniline	20	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U
Acenaphthylene	5.0	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U
3-Nitroaniline	20	U	U	U	U
Acenaphthene	5.0	U	U	U	U
Dibenzofuran	5.0	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U
4-Nitrophenol	20	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U
Diethylphthalate	5.0	U	U	U	U
Fluorene	5.0	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U
4-Nitroaniline	20	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U
Pentachlorophenol	20	U	U	U	U
Phenanthrene	5.0	U	U	U	U
Carbazole	5.0	U	U	U	U
Anthracene	5.0	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U
Fluoranthene	5.0	U	U	U	U
Pyrene	5.0	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U
Chrysene	5.0	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U

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 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC DUPLICATES - SEMIVOLATILES

Date Sampled:		12/01/14	12/01/14	12/02/14	12/02/14
Date Extracted:	DET. LIMITS	12/02/14	12/02/14	12/02/14	12/02/14
		EW-9-1214	Dup-1-1214	EW-7-1214	Dup-2-1214
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U
Camphor	5.0	25	26	U	U
1,1-Dichloro-2,2-dithoxyethane	5.0	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U
n,n-Dimethylaniline	5.0	270 D	300 D	8.9	8.9
n-Ethylaniline	5.0	58	61	16	16
n-Methylaniline	5.0	64	67	11	11
Tetramethylurea	5.0	U	U	U	U
Aniline	5.0	18	20	5.0	5.5

D=Quantified from a dilution,

* See Narrative

Surrogates	Spike Percent Recoveries				
2-Fluorophenol	50	38	39	36	36
Phenol-d6	50	29	30	23	27
Nitrobenzene-d5	100	63	66	53	64
2-Fluorobiphenyl	100	79	76	64	68
2,4,6-Tribromophenol	50	97	99	78	76
p-Terphenyl-d14	100	94	94	82	88

TABLE 5
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON,
DECEMBER, 2014
QC TRIP BLANKS - VOLATILES

Date Sampled:		12/01/14	12/02/14	12/03/14
Date Analyzed:	DETECTION LIMITS	12/03/14 TB120114	12/03/14 TB120214	12/03/14 TB120314
Dichlorodifluoromethane	1.0	U	U	U
Chloromethane	5.0	U	U	U
Vinyl Chloride	1.0	U	U	U
Bromomethane	5.0	U	U	U
Chloroethane	1.0	U	U	U
Trichlorofluoromethane	1.0	U	U	U
1,1-Dichloroethene	1.0	U	U	U
Acetone	10	U	U	U
Carbon Disulfide	5.0	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U
1,1-Dichloroethane	1.0	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U
Chloroform	1.0	U	U	U
Tetrahydrofuran	5.0	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U
Carbon Tetrachloride	1.0	U	U	U
1,2-Dichloroethane	1.0	U	U	U
Benzene	1.0	U	U	U
Trichloroethene	1.0	U	U	U
1,2-Dichloropropane	1.0	U	U	U
Bromodichloromethane	1.0	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U
Toluene	1.0	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U
Tetrachloroethene	1.0	U	U	U
Dibromochloromethane	1.0	U	U	U
Chlorobenzene	1.0	U	U	U
Ethylbenzene	1.0	U	U	U

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 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON,
 DECEMBER, 2014
 QC TRIP BLANKS - VOLATILES

Date Sampled:		12/01/14	12/02/14	12/03/14
Date Analyzed:	DETECTION	12/03/14	12/03/14	12/03/14
	LIMITS	TB120114	TB120214	TB120314
Xylenes (total)	3.0	U	U	U
Styrene	1.0	U	U	U
Bromoform	1.0	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U

D=Quantified from a dilution, * See Narrative

Surrogates	Spike	Percent Recoveries		
1,2-Dichloroethane-d4	50	98	100	99
Toluene-d8	50	97	97	97
4-Bromofluorobenzene	50	105	104	105
1,2-Dichlorobenzene-d4	50	104	103	103

TABLE 6
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC METHOD BLANKS - VOLATILES

Date Analyzed:	DETECTION LIMITS	12/02/14 MB120201	12/03/14 MB120301	12/04/14 MB120401
Dichlorodifluoromethane	1.0	U	U	U
Chloromethane	5.0	U	U	U
Vinyl Chloride	1.0	U	U	U
Bromomethane	5.0	U	U	U
Chloroethane	1.0	U	U	U
Trichlorofluoromethane	1.0	U	U	U
1,1-Dichloroethene	1.0	U	U	U
Acetone	10	U	U	U
Carbon Disulfide	5.0	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U
1,1-Dichloroethane	1.0	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U
Chloroform	1.0	U	U	U
Tetrahydrofuran	5.0	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U
Carbon Tetrachloride	1.0	U	U	U
1,2-Dichloroethane	1.0	U	U	U
Benzene	1.0	U	U	U
Trichloroethene	1.0	U	U	U
1,2-Dichloropropane	5.0	U	U	U
Bromodichloromethane	1.0	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U
Toluene	1.0	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U
Tetrachloroethene	1.0	U	U	U
Dibromochloromethane	1.0	U	U	U
Chlorobenzene	1.0	U	U	U
Ethylbenzene	1.0	U	U	U

TABLE 6
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC METHOD BLANKS - VOLATILES

Date Analyzed:	DETECTION LIMITS	12/02/14 MB120201	12/03/14 MB120301	12/04/14 MB120401
Xylenes (total)	3.0	U	U	U
Styrene	1.0	U	U	U
Bromoform	1.0	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U

D=Quantified from a dilution, * See Narrative

Surrogates	Spike	Percent Recoveries		
1,2-Dichloroethane-d4	50	98	98	96
Toluene-d8	50	100	97	98
4-Bromofluorobenzene	50	101	107	105
1,2-Dichlorobenzene-d4	50	94	102	100

TABLE 7
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC METHOD BLANKS-SEMIVOLATILES

Date Extracted:	DETECTION LIMITS	12/02/14 MB120201	12/04/14 MB120401
bis(2-Chloroethyl)ether	5.0	U	U
2-Chlorophenol	5.0	U	U
Phenol	5.0	U	U
1,3-Dichlorobenzene	5.0	U	U
1,4-Dichlorobenzene	5.0	U	U
1,2-Dichlorobenzene	5.0	U	U
Benzyl alcohol	20	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U
2-Methylphenol	5.0	U	U
4-Methylphenol	5.0	U	U
n-Nitroso-di-n-propylamine	5.0	U	U
Hexachloroethane	5.0	U	U
Nitrobenzene	5.0	U	U
Isophorone	5.0	U	U
2-Nitrophenol	5.0	U	U
2,4-Dimethylphenol	5.0	U	U
bis(2-Chloroethoxy)methane	5.0	U	U
Benzoic acid	50	U	U
1,2,4-Trichlorobenzene	5.0	U	U
2,4-Dichlorophenol	5.0	U	U
Naphthalene	5.0	U	U
4-Chloroaniline	20	U	U
Hexachloro-1,3-butadiene	5.0	U	U
4-Chloro-3-methylphenol	5.0	U	U
2-Methylnaphthalene	5.0	U	U
Hexachlorocyclopentadiene	5.0	U	U
2,4,6-Trichlorophenol	5.0	U	U
2,4,5-Trichlorophenol	5.0	U	U
2-Chloronaphthalene	5.0	U	U
2-Nitroaniline	20	U	U

T 7
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC METHOD BLANKS-SEMIVOLATILES

Date Extracted:	DETECTION LIMITS	12/02/14 MB120201	12/04/14 MB120401
Dimethylphthalate	5.0	U	U
Acenaphthylene	5.0	U	U
2,6-Dinitrotoluene	5.0	U	U
3-Nitroaniline	20	U	U
Acenaphthene	5.0	U	U
Dibenzofuran	5.0	U	U
2,4-Dinitrotoluene	5.0	U	U
4-Nitrophenol	20	U	U
2,4-Dinitrophenol	20	U	U
Diethylphthalate	5.0	U	U
Fluorene	5.0	U	U
4-Chlorophenyl-phenylether	5.0	U	U
4-Nitroaniline	20	U	U
4,6-Dinitro-2-methylphenol	20	U	U
n-Nitrosodiphenylamine	5.0	U	U
4-Bromophenyl-phenylether	5.0	U	U
Hexachlorobenzene	5.0	U	U
Pentachlorophenol	20	U	U
Phenanthrene	5.0	U	U
Carbazole	5.0	U	U
Anthracene	5.0	U	U
Di-n-butylphthalate	5.0	U	U
Fluoranthene	5.0	U	U
Pyrene	5.0	U	U
Butylbenzylphthalate	5.0	U	U
Benzo(a)anthracene	5.0	U	U
Chrysene	5.0	U	U
3,3'-Dichlorobenzidine	20	U	U
bis(2-Ethylhexyl)phthalate	5.0	U	U
Di-n-octylphthalate	5.0	U	U

TABLE 7
 OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014
 QC METHOD BLANKS-SEMIVOLATILES

Date Extracted:	DETECTION LIMITS	12/02/14 MB120201	12/04/14 MB120401
Benzo(b)fluoranthene	5.0	U	U
Benzo(k)fluoranthene	5.0	U	U
Benzo(a)pyrene	5.0	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U
Dibenzo(a,h)anthracene	5.0	U	U
Benzo(g,h,i)perylene	5.0	U	U
Camphor	5.0	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U
2-Ethylaniline	5.0	U	U
n,n-Dimethylaniline	5.0	U	U
n-Ethylaniline	5.0	U	U
n-Methylaniline	5.0	U	U
Tetramethylurea	5.0	U	U
Aniline	5.0	U	U

D=Quantified from a dilution, * See Narrative

Surrogates	Spike	Percent Recoveries	
2-Fluorophenol	50	44	39
Phenol-d6	50	32	28
Nitrobenzene-d5	100	69	65
2-Fluorobiphenyl	100	69	63
2,4,6-Tribromophenol	50	80	81
p-Terphenyl-d14	100	95	102

TABLE 8
 OT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
 DECEMBER, 2014

QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES-VOLATILES

Date Sampled:	12/02/14	12/02/14	RPD %	12/01/14	12/01/14	RPD %	12/02/14	12/02/14	RPD %	Control Limits % MS/MSD	Control Limits % MS/MSD
	Date Analyzed:	Recovery % MS		Recovery % MSD	Recovery % MS		Recovery % MSD	Recovery % MS			
	EW-9-1214	EW-9-1214		EW-9-1214	EW-9-1214		DW-300	DW-300		Recovery %	RPD%
Dichlorodifluoromethane	97	100	-2.5	90	89	1.3	86	84	2.6	30-155	30
Chloromethane	99	103	-3.9	91	91	0.3	89	90	-1.5	40-125	30
Vinyl Chloride	102	104	-1.8	57	52	1.3	93	89	4.3	50-145	30
Bromomethane	116	116	0.7	83	80	3.4	78	69	11.2	30-145	30
Chloroethane	107	109	-1.7	97	97	0.2	105	99	6.0	60-135	30
Trichlorofluoromethane	104	104	-0.3	97	95	1.4	95	93	2.5	60-145	30
1,1-Dichloroethene	105	107	-2.5	99	97	1.6	105	103	2.0	70-130	30
Acetone	85	87	-2.3	98	98	-0.4	87	91	-5.3	40-140	30
Carbon Disulfide	101	103	-1.3	99	99	-0.4	101	97	4.2	35-160	30
trans-1,2-Dichloroethene	102	104	-1.1	102	100	1.3	92	86	3.5	60-140	30
1,1-Dichloroethane	105	107	-1.5	100	99	1.3	104	101	2.7	70-135	30
cis-1,2-Dichloroethene	104	104	-0.4	101	100	0.6	91	85	2.6	70-125	30
Chloroform	99	99	-0.3	102	101	1.1	101	100	1.9	65-135	30
Tetrahydrofuran	109	107	1.5	116	115	0.5	113	120	-5.7	43-154	30
1,1,1-Trichloroethane	102	103	-1.2	102	100	1.6	99	97	1.8	65-130	30
Carbon Tetrachloride	102	104	-2.2	102	101	1.0	100	97	3.4	65-140	30
1,2-Dichloroethane	100	100	-0.1	100	100	0.0	98	96	2.6	70-130	30
Benzene	105	106	-1.3	98	96	1.6	105	103	1.6	80-120	30
Trichloroethene	99	101	-1.3	99	99	0.2	91	86	3.3	70-125	30
1,2-Dichloropropane	104	106	-1.1	103	103	-0.3	106	104	2.2	75-125	30
Bromodichloromethane	100	100	-0.4	102	102	-0.4	103	100	3.0	75-120	30
cis-1,3-Dichloropropene	104	104	-0.6	104	104	0.2	106	103	2.5	70-130	30
Toluene	105	105	-0.2	90	90	0.6	102	100	2.0	75-120	30
trans-1,3-Dichloropropene	104	104	0.6	98	99	-0.6	104	101	3.2	55-140	30
1,1,2-Trichloroethane	107	107	0.5	100	100	0.3	106	105	1.0	75-125	30
Tetrachloroethene	105	105	-0.1	98	96	2.1	92	88	2.6	45-150	30
Dibromochloromethane	99	98	0.8	96	97	-1.1	100	98	1.6	60-135	30
Chlorobenzene	103	104	-0.4	95	95	0.2	103	100	2.9	80-120	30
Ethylbenzene	105	106	-1.1	98	98	0.9	103	101	2.3	75-125	30
m,p-Xylene	104	105	-0.9	98	98	0.3	103	101	1.8	80-120	30
o-Xylene	104	104	0.3	98	99	-0.6	102	101	1.2	80-120	30
Styrene	106	106	0.5	101	102	-0.9	107	105	1.7	65-135	30
Bromoform	105	103	1.6	102	102	0.9	102	104	-1.6	70-130	30
1,1,2,2-Tetrachloroethane	113	115	-1.3	112	111	1.0	119	122	-1.8	65-130	30
1,3-Dichlorobenzene	103	105	-1.5	97	94	2.7	102	100	1.7	75-125	30
1,4-Dichlorobenzene	101	103	-1.5	94	94	-0.2	100	98	2.4	75-125	30
1,2-Dichlorobenzene	103	105	-2.0	98	98	0.3	100	99	1.1	70-120	30

* See Narrative, MI - Matrix Interference, NC - Not Calculated

TABLE 9
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - VOLATILES

Date Analyzed:	12/02/14		RPD %	12/03/14		12/04/14		Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
	Recovery %	Recovery %		Recovery %	Recovery %	Recovery %	Recovery %		
	LCS LS120201	LCS LD120201		LCS LS120301	LCS LD120301	LCS LS120401			
Dichlorodifluoromethane	95	97	-2.2	85	86	-1.1	79	30-155	30
Chloromethane	96	96	0.0	88	90	-2.0	88	40-125	30
Vinyl Chloride	98	100	-2.0	88	88	0.1	88	50-145	30
Bromomethane	104	107	-2.8	80	79	1.2	89	30-145	30
Chloroethane	103	102	0.7	93	92	1.0	98	60-135	30
Trichlorofluoromethane	100	100	-0.3	91	90	0.5	86	60-145	30
1,1-Dichloroethene	108	110	-1.4	96	96	0.7	103	70-130	30
Acetone	99	98	0.9	95	101	-5.7	87	40-140	30
Carbon Disulfide	105	105	0.3	91	89	3.0	110	35-160	30
trans-1,2-Dichloroethene	108	106	1.9	97	94	2.8	106	60-140	30
1,1-Dichloroethane	109	110	-0.5	97	97	-0.1	104	70-135	30
cis-1,2-Dichloroethene	109	107	1.4	96	95	0.7	104	70-125	30
Chloroform	104	103	0.7	97	96	1.5	102	65-135	30
Tetrahydrofuran	114	115	-0.2	113	124	-9.1	108	63-142	30
1,1,1-Trichloroethane	107	107	0.0	96	95	0.8	97	65-130	30
Carbon Tetrachloride	107	107	0.0	97	96	1.0	98	65-140	30
1,2-Dichloroethane	107	106	0.6	96	96	-0.3	98	70-130	30
Benzene	108	109	-1.3	98	97	1.0	105	80-120	30
Trichloroethene	104	104	0.3	94	93	1.4	101	70-125	30
1,2-Dichloropropane	109	110	-1.4	100	101	-0.9	106	75-125	30
Bromodichloromethane	105	103	1.4	97	97	-0.1	103	75-120	30
cis-1,3-Dichloropropene	109	108	0.5	101	101	-0.1	107	70-130	30
Toluene	109	110	-1.0	92	90	2.2	101	75-120	30
trans-1,3-Dichloropropene	110	109	0.4	95	93	2.2	104	55-140	30
1,1,2-Trichloroethane	112	114	-2.2	95	97	-1.8	104	75-125	30
Tetrachloroethene	108	108	-0.3	93	91	2.9	100	45-150	30
Dibromochloromethane	105	106	-0.9	94	92	2.0	99	60-135	30
Chlorobenzene	107	108	-0.7	93	91	2.5	101	80-120	30
Ethylbenzene	109	109	-0.1	94	92	2.3	102	75-125	30
m,p-Xylene	108	108	-0.7	93	91	1.7	102	80-120	30
o-Xylene	108	108	-0.1	92	92	0.8	103	80-120	30
Styrene	110	109	1.1	96	90	6.2	107	65-135	30
Bromoform	111	111	-0.2	98	99	-1.6	101	70-130	30
1,1,2,2-Tetrachloroethane	118	118	-0.1	105	107	-1.8	110	65-130	30
1,3-Dichlorobenzene	106	107	-1.3	90	88	1.9	100	75-125	30
1,4-Dichlorobenzene	106	105	0.5	89	87	2.3	100	75-125	30
1,2-Dichlorobenzene	108	108	0.5	92	91	1.8	101	70-120	30

* See Narrative

TABLE 10
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:	12/01/14	12/01/14		12/02/14	12/02/14		Control	Control
Date Extracted:	12/02/14	12/02/14	RPD %	12/04/14	12/04/14	RPD %	Limits %	Limits %
	Recovery % MS	Recovery % MSD		Recovery % MS	Recovery % MSD		MS/MSD	MS/MSD
	EW-9-1214	EW-9-1214		EW-1-1214	EW-1-1214		Recovery %	RPD%
Aniline	93	79	16.4	86	80	7.1	37-110	30
Phenol	42	39	8.5	36	30	18.8	15-49	30
bis(2-Chloroethyl)ether	79	70	12.7	73	65	12.1	48-92	30
2-Chlorophenol	80	72	10.4	73	62	15.7	45-98	30
Tetramethylurea	70	64	8.3	60	56	6.5	30-97	30
1,3-Dichlorobenzene	74	66	10.5	71	61	15.6	47-88	30
1,4-Dichlorobenzene	76	68	10.7	70	59	15.9	47-90	30
1,2-Dichlorobenzene	79	70	11.7	72	61	15.5	45-94	30
Benzyl Alcohol	77	69	10.9	70	63	11.5	43-86	30
1,1-Dichloro-2,2-diethoxy	78	67	14.9	72	66	9.1	39-111	30
2-Methylphenol	43	38	13.2	69	60	13.9	34-99	30
bis(2-Chloroisopropyl)ether	80	68	15.2	72	65	9.4	48-91	30
n-Methylbenzeneamine	114	86	27.6	70	46	42 *	45-116	30
Hexachloroethane	75	66	13.5	71	61	15.7	46-87	30
4-Methylphenol	70	63	9.4	64	57	11.8	43-83	30
n-Nitroso-di-n-propylamine	84	73	14.7	78	73	6.7	52-98	30
Nitrobenzene	MI	MI	MI	91	81	11.7	44-134	30
n,n-Dimethylbenzeneamine	MI	MI	MI	79	63	22.6	42-116	30
Isophorone	89	76	15.6	82	78	5.4	54-102	30
n-Ethylbenzeneamine	107	82	27.0	85	74	13.8	49-116	30
2-Nitrophenol	89	79	12.5	79	69	12.9	50-109	30
2,4-Dimethylphenol	78	72	7.8	75	59	24.3	47-95	30
Camphor	93	70	27.6	79	72	9.6	42-120	30
2-Ethylbenzeneamine	86	79	8.7	78	71	9.4	45-114	30
bis(2-Chloroethoxy)methane	87	75	14.6	81	74	8.5	51-98	30
2,4-Dichlorophenol	91	81	11.9	83	74	10.9	51-109	30
1,2,4-Trichlorobenzene	85	75	13.2	79	68	13.7	50-96	30
Naphthalene	90	78	14.2	80	71	11.4	46-103	30
4-Chloroaniline	92	83	10.1	81	77	5.2	54-100	30
Hexachlorobutadiene	84	73	14.1	77	66	15.2	48-94	30
4-Chloro-3-methylphenol	90	79	12.1	88	84	4.5	59-114	30
2-Methylnaphthalene	89	79	12.7	83	76	8.1	54-100	30
Hexachlorocyclopentadiene	59	43	32 *	45	43	4.5	21-66	30
2,4,6-Trichlorophenol	81	77	5.3	87	79	9.6	47-117	30
2,4,5-Trichlorophenol	83	76	8.9	94	86	8.7	51-116	30
2-Chloronaphthalene	78	70	10.4	83	76	9.5	42-106	30
2-Nitroaniline	79	71	10.4	92	91	1.6	58-106	30
Dimethyl phthalate	79	74	6.7	94	89	5.7	52-114	30
Acenaphthylene	83	75	9.6	90	83	7.4	47-113	30

TABLE 10
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:	12/01/14	12/01/14	RPD %	12/02/14	12/02/14	RPD %	Control Limits % MS/MSD Recovery %	Control Limits % MS/MSD RPD%
	12/02/14	12/02/14		12/04/14	12/04/14			
Date Extracted:	Recovery % MS EW-9-1214	Recovery % MSD EW-9-1214		Recovery % MS EW-1-1214	Recovery % MSD EW-1-1214			
2,6-Dinitrotoluene	84	76	9.8	99	93	6.2	54-116	30
3-Nitroaniline	84	79	6.6	102	103	-1.0	53-116	30
Acenaphthene	80	73	8.7	89	84	5.6	46-109	30
2,4-Dinitrophenol	57	53	6.8	71	58	20.7	11-96	30
Dibenzofuran	81	73	10.6	92	88	5.0	54-111	30
4-Nitrophenol	26	26	0.7	37	32	16.5	5-54	30
2,4-Dinitrotoluene	82	74	10.4	106	99	7.3	58-119	30
Fluorene	84	75	11.2	101	94	6.3	52-113	30
Diethyl phthalate	82	75	8.8	102	98	4.1	56-118	30
4-Chlorophenyl phenyl ether	80	72	10.7	96	92	4.1	50-113	30
4-Nitroaniline	80	74	8.5	118	119	-1.0	50-131	30
2-Methyl-4,6-dinitrophenol	77	72	5.9	88	80	9.8	37-109	30
n-Nitrosodiphenylamine	77	68	12.3	95	90	5.1	55-113	30
4-Bromophenyl phenyl ether	95	91	4.4	89	88	1.9	66-106	30
Hexachlorobenzene	97	91	5.9	94	94	0.5	67-110	30
Pentachlorophenol	86	86	1.0	93	89	3.9	53-117	30
Phenanthrene	99	92	7.6	101	98	2.9	60-120	30
Anthracene	102	95	6.3	103	100	3.0	60-122	30
Carbazole	99	90	10.0	101	102	-0.5	72-116	30
Di-n-butyl phthalate	101	90	10.9	97	99	-1.4	65-117	30
Fluoranthene	100	89	11.4	105	98	7.4	64-116	30
Pyrene	97	88	10.4	104	98	5.8	63-113	30
Butyl Benzyl phthalate	85	81	5.1	94	100	-6.5	64-119	30
Benzo(a)anthracene	96	91	5.7	101	100	1.0	66-116	30
3,3'-Dichlorobenzidine	100	94	5.5	123	126	-2.8	70-144	30
Chrysene	96	90	6.2	100	98	2.1	65-117	30
bis(2-ethylhexyl) phthalate	89	84	6.2	96	99	-2.5	61-124	30
Di-n-octyl phthalate	85	79	8.2	101	102	-1.7	58-117	30
Benzo(b)fluoranthene	88	85	3.2	94	94	-0.5	57-108	30
Benzo(k)fluoranthene	103	93	9.9	108	101	7.5	60-121	30
Benzo(a)pyrene	95	89	6.7	99	95	3.7	59-112	30
Indeno(1,2,3-cd)pyrene	109	102	5.9	99	97	1.8	54-115	30
Dibenzo(a,h)anthracene	100	96	4.2	95	95	0.1	56-114	30
Benzo(g,h,i)perylene	103	99	4.1	94	94	0.1	53-115	30

* See Narrative

TABLE 11
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - SEMIVOLATILES

Date Extracted:

	12/02/14	12/02/14	12/04/14	12/04/14		Control	Control
	Recovery %	Recovery %	RPD %	Recovery %	Recovery %	Limits %	Limits %
	LCS	LCD		LCS	LCD	LCS/LCD	LCS/LCD
	LS120201	LD120201		LS120401	LD120401	Recovery %	RPD%

	12/02/14	12/02/14	12/04/14	12/04/14		Control	Control	
	Recovery %	Recovery %	RPD %	Recovery %	Recovery %	Limits %	Limits %	
	LCS	LCD		LCS	LCD	LCS/LCD	LCS/LCD	
	LS120201	LD120201		LS120401	LD120401	Recovery %	RPD%	
Aniline	69	77	-10.8	59	65	-8.9	43-83	30
Phenol	42 *	39*	7.1	29	35	-16.6	24-38	30
bis(2-Chloroethyl)ether	81	80	1.4	65	72	-9.4	52-87	30
2-Chlorophenol	82	80	1.8	64	71	-9.8	56-82	30
Tetramethylurea	71	69	3.5	58	63	-7.9	46-76	30
1,3-Dichlorobenzene	75	77	-2.3	57	61	-6.1	51-81	30
1,4-Dichlorobenzene	76	79	-3.8	56	60	-5.5	53-81	30
1,2-Dichlorobenzene	78	80	-1.6	59	63	-7.7	54-82	30
Benzyl Alcohol	79	76	4.4	62	69	-10.2	53-81	30
1,1-Dichloro-2,2-diethoxy	78	78	0.5	64	73	-12.7	51-89	30
2-Methylphenol	77	76	1.7	59	68	-13.7	54-77	30
bis(2-Chloroisopropyl)ether	77	79	-3.4	63	72	-12.6	50-88	30
n-Methylbenzencamine	79	81	-1.6	66	73	-10.0	57-87	30
Hexachloroethane	74	77	-3.2	54	59	-8.7	48-81	30
4-Methylphenol	72	71	1.9	56	64	-13.7	50-72	30
n-Nitroso-di-n-propylamine	84	81	2.7	70	77	-9.6	56-92	30
Nitrobenzene	92	90	2.2	71	79	-10.4	61-109	30
n,n-Dimethylbenzencamine	80	81	-0.9	63	72	-13.3	57-84	30
Isophorone	88	86	2.8	76	80	-4.7	61-96	30
n-Ethylbenzencamine	81	84	-3.2	75	80	-7.6	57-89	30
2-Nitrophenol	92	86	6.7	69	76	-9.4	57-95	30
2,4-Dimethylphenol	75	76	-1.7	59	70	-16.3	52-82	30
Camphor	85	84	1.0	71	76	-7.6	59-89	30
2-Ethylbenzencamine	84	85	-0.3	70	76	-7.6	58-91	30
bis(2-Chloroethoxy)methane	86	84	2.9	73	79	-8.4	57-91	30
2,4-Dichlorophenol	91	88	2.5	73	78	-7.1	62-92	30
1,2,4-Trichlorobenzene	85	86	-1.1	66	72	-7.9	59-87	30
Naphthalene	92	90	1.7	70	76	-8.5	52-99	30
4-Chloroaniline	90	89	1.7	75	78	-3.5	62-93	30
Hexachlorobutadiene	82	84	-1.3	63	68	-8.8	56-86	30
4-Chloro-3-methylphenol	89	88	1.5	82	83	-0.9	69-98	30
2-Methylnaphthalene	89	88	1.4	74	78	-4.2	62-96	30
Hexachlorocyclopentadiene	73	60	19.9	41	44	-6.9	25-73	30
2,4,6-Trichlorophenol	97	91	6.1	81	83	-1.5	68-100	30
2,4,5-Trichlorophenol	98	91	7.9	86	86	-1.0	72-99	30
2-Chloronaphthalene	91	87	4.7	76	79	-3.1	62-95	30
2-Nitroaniline	93	92	1.5	90	91	-0.9	70-106	30
Dimethyl phthalate	96	95	1.0	88	88	-0.1	72-104	30
Acenaphthylene	98	93	5.4	84	85	-1.3	61-111	30

TABLE 11
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
DECEMBER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - SEMIVOLATILES

Date Extracted:	12/02/14	12/02/14	RPD %	12/04/14	12/04/14	RPD %	Control	Control
	Recovery %	Recovery %		Recovery %	Recovery %		Limits %	Limits %
	LCS	LCD		LCS	LCD		LCS/LCD	LCS/LCD
	LS120201	LD120201		LS120401	LD120401		Recovery %	RPD%
2,6-Dinitrotoluene	101	97	4.6	90	90	0.2	77-104	30
3-Nitroaniline	101	101	-0.3	98	97	1.1	74-107	30
Acenaphthene	95	90	5.3	84	84	-0.2	64-100	30
2,4-Dinitrophenol	85	61	32 *	87	84	4.3	35-122	30
Dibenzofuran	96	91	5.2	88	86	1.5	68-110	30
4-Nitrophenol	41	33	20.4	41	42	-3.1	22-50	30
2,4-Dinitrotoluene	99	98	0.6	96	95	1.3	80-109	30
Fluorene	99	94	5.5	92	91	1.4	67-108	30
Diethyl phthalate	101	99	2.1	94	91	3.0	73-112	30
4-Chlorophenyl phenyl ether	96	94	2.6	91	90	0.6	68-106	30
4-Nitroaniline	91	99	-8.0	115	111	3.0	66-125	30
2-Methyl-4,6-dinitrophenol	100	84	17.9	91	90	1.8	51-120	30
n-Nitrosodiphenylamine	93	92	1.1	86	84	3.0	72-107	30
4-Bromophenyl phenyl ether	98	102	-3.8	85	84	0.9	74-103	30
Hexachlorobenzene	101	103	-2.4	89	89	0.4	78-105	30
Pentachlorophenol	93	86	8.0	85	88	-3.2	68-110	30
Phenanthrene	103	104	-0.9	92	91	0.8	68-120	30
Anthracene	109	106	3.3	96	93	3.2	67-123	30
Carbazole	113	116	-3.2	96	93	2.8	75-116	30
Di-n-butyl phthalate	103	109	-5.3	92	89	3.4	71-116	30
Fluoranthene	108	108	-0.1	94	91	3.5	67-119	30
Pyrene	104	104	-0.1	93	89	4.3	67-116	30
Butyl Benzyl phthalate	87	91	-4.9	89	92	-2.5	65-113	30
Benzo(a)anthracene	102	103	-0.4	92	91	1.3	68-111	30
3,3'-Dichlorobenzidine	93	106	-12.7	114	115	-1.6	77-133	30
Chrysene	102	100	1.9	92	91	1.1	71-110	30
bis(2-ethylhexyl) phthalate	90	93	-2.9	93	96	-3.3	65-120	30
Di-n-octyl phthalate	88	88	-0.4	94	93	1.2	55-121	30
Benzo(b)fluoranthene	93	96	-2.8	89	89	-0.8	62-107	30
Benzo(k)fluoranthene	112	108	3.3	94	90	3.9	67-117	30
Benzo(a)pyrene	101	101	0.2	90	89	0.7	67-108	30
Indeno(1,2,3-cd)pyrene	113	118	-4.7	90	92	-2.1	56-121	30
Dibenzo(a,h)anthracene	105	108	-3.5	88	90	-1.6	67-110	30
Benzo(g,h,i)perylene	108	113	-4.4	88	90	-1.9	56-120	30

* See Narrative



Sample Log-In Sheet

1						2		
Sample ID								
Sample Date	Sample Name	Log-In Date	Initials	Batch ID ¹	Sample #	Transfer Date	Initials	
12/01/14	EW-8-1214	12/01/14	KJ	NL01	01V1	12/02/14	JTB	1:15pm
					01V2			
					01V3			
					01V4			
					01S1	12/02/14	CMS	
					01S2			
	EW-9-1214				02V1	12/01/14	JTB	1:35pm
					02V2	12/04/14	JTB	
					02V3			
					02VMS1	12/03/14	JTB	
					02VMSD1			
					02VMS2			
					02VMSD2			
					02S1	12/02/14	CMS	
					02S2			
					02SMS1	12/02/14	CMS	
					02SMSD1			
					02SMS2			
					02SMSD2			
	EW-10-1214				03V1	12/02/14	JTB	2:05pm
					03V2	12/04/14	JTB	
					03V3			
					03V4			
					03S1	12/02/14	CMS	
					03S2			
	Dup-1-1214				04V1	12/03/14	JTB	1:35pm
					04V2	12/04/14		
					04V3			
					04V4			
					04S1	12/02/14	CMS	
					04S2			
	Trip blank	12/01/14			05V1	12/05/14	JTB	
					05V2			
12/02/14	EW-1-1214	12/02/14	KJ	NL02	01V1	12/02/14	JTB	9:20am
					01V2			
					01V3			
					01VMS1	12/02/14	JTB	

¹ Batch is equivalent to a group of samples collected in one day. Batch ID is defined as Year(A...) Month(A...) Batch # (01...)

Sample Log-In Sheet

1

Sample ID

2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID ¹	Sample #	Transfer Date	Initials
12/02/14	EW-1-1214	12/02/14	KJ	NLOZ	01VMSD1	12/02/14	JTB
					01VMS2	↓	
					01VMSD2		
					01S1	12/02/14	CMJ
					01S2		
					01SAS1	12/04/14	CMJ
					01SASD1	↓	↓
					01SAS2		
					01SASD2		
	EW-2-1214				02V1	12/03/14	JTB
					02V2		
					02V3		
					02V4		
					02S1	12/02/14	CMJ
					02S2		
	EW-3-1214				03V1	12/03/14	JTB
					03V2		
					03V3		
					03V4		
					03S1	12/02/14	CMJ
					03S2		
	EW-4-1214				04V1	12/02/14	JTB
					04V2	12/03/14	JTB
					04V3		
					04V4		
					04S1	12/02/14	CMJ
					04S2		
	EW-5-1214				05V1	12/02/14	JTB
					05V2	12/03/14	JTB
					05V3	12/04/14	JTB
					05V4		
					05S1	12/02/14	CMJ
					05S2		
	EW-6-1214				06V1	12/03/14	JTB
					06V2	12/04/14	JTB
					06V3		
					06V4		

9:20am

9:45am

10:05am

10:25am

10:45am

11:00am

¹ Batch is equivalent to a group of samples collected in one day. Batch ID is defined as Year(A....) Month(A....)Batch #(01....)

Sample Log-In Sheet

Sample ID							
Sample Date	Sample Name	Log-In Date	Initials	Batch ID ¹	Sample #	Transfer Date	Initials
12/02/14	EW-6-1214	12/02/14	KJ	NL02	06S1	12/02/14	CMS
	↓				06S2		
	EW-7-1214				07V1	12/03/14	JTB
	↓				07V2		
	↓				07V3		
	↓				07S1	12/02/14	CMS
	↓				07S2		
	W-114-1214				08V1	12/02/14	JTB
	↓				08V2	12/04/14	JTB
	↓				08V3		
	↓				08V4		
	↓				08S1	12/02/14	CMS
	↓				08S2		
	W-110-1214				09V1	12/02/14	JTB
	↓				09V2	12/04/14	JTB
	↓				09V3		
	↓				09V4		
	↓				09S1	12/02/14	CMS
	↓				09S2		
	Dep-2-1214				10V1	12/03/14	JTB
	↓				10V2		
	↓				10V3		
	↓				10S1	12/02/14	CMS
	↓				10S2		
	Trip blank 12/02/14				11V1	12/03/14	JTB
	↓				11V2		
12/03/14	EW-10-1214	12/03/14	KJ	NL03	01V1	12/04/14	JTB
	↓				01V2		
	↓				01V3		
	↓				01V4		
	↓				01S1	12/04/14	CMS
	↓				01S2		
	Trip blank 12/03/14				02V1	12/03/14	JTB
	↓				02V2		

11:00am

11:15am

1:15pm

2:30pm

11:15am

11:00am

¹ Batch is equivalent to a group of samples collected in one day. Batch ID is defined as Year(A....) Month(A...)Batch # (01...)

December 2014, 1st Quarter Well Sampling Plan

	Sampling Sequence	Well Id	QC Samples	Type	Approx. Location	Remarks	Page
SET 1							
1-Dec Monday	1	EW-8		E	NE of Plant	Sample Port	1
	2	EW-9	MS/MSD	E	E of Plant	Sample Port	2
		Dup-1-12-14	Sample EW-9	E	E of Plant	Sample Port	2
	3	EW-10		E	N of Plant	Sample Port	3
		Trip Blank					
2-Dec Tuesday	4	EW-1	MS/MSD	E	E of Central, N of River	Sample Port	4
	5	EW-2		E	E of Central, N of River	Sample Port	5
	6	EW-3		E	E of Central, N of River	Sample Port	6
	7	EW-4		E	S of River Rd	Sample Port	7
	8	EW-5		E	S of River Rd	Sample Port	8
	9	EW-6		E	S of River Rd	Sample Port	9
	10	EW-7		E	S of River Rd	Sample Port	10
		Dup-2-12-14	Sample EW-7	E	E of Plant	Sample Port	10
	11	W-110i		M	S of River Rd	Bladder Pump	11
	12	W-114i		M	S of River Rd	Bladder Pump	15
			Trip Blank				
	13	EW-11		E	NE of Plant	Sample Port	19
			Trip Blank				

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-8-1214
 Volatile bottles preserved by: JB 11/26/14 OSCF 2725
 Sampled by: JJ

Date: 12-1-11
 Time: 1:15 pm
 Weather: 20/6

Top of casing elevation: 642.62 ft Depth to well bottom: 72.7 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
 (approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:15			7.15	6.25	5.22	445	4.08	-66.4
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
 Sample turbidity: low
 Sample odor: YES NO PID reading:
 Other observations: _____ Comments: _____

Additional comments on methodology, etc.: _____

Signature: _____

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-9-1214
 Volatile bottles preserved by: JB 11/26/14 OSCF 2725
 Sampled by: SP

Date: 12-1-14
 Time: 1:35 pm
 Weather: Cold

Top of casing elevation: 642.62 ft Depth to well bottom: 148.2 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 9.5 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:35			5.63	7.87	5.26	386	114	-845
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear to
 Sample turbidity: low
 Sample odor: YES NO PID reading:
 Other observations: 14.10 Comments:

Additional comments on methodology, etc.:

Signature:  2

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-10-1214
 Volatile bottles preserved by: JB 11/26/14 OSCI 2725
 Sampled by: 4f

Date: 12-1-14
 Time: 2:05 pm (2:05)
 Weather: 20/10

Top of casing elevation: 649.98 ft Depth to well bottom: 75 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 4 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2:05			5.73	7.50	4.95	467	1.17	-89.7
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
 Sample turbidity: 10
 Sample odor: YES NO PID reading:
 Other observations: _____ Comments: _____

Additional comments on methodology, etc.: _____

Signature: [Signature] 3

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-2-1214
 Volatile bottles preserved by: JB 11/26/14 OSC 2725
 Sampled by: SP

Date: 12-2-14
 Time: 9:55 am
 Weather: cold

Top of casing elevation: 637.2 ft Depth to well bottom: 80.8 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

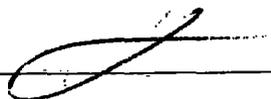
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:45			7.89	6.98	2.49	269	.24	2.6
2									
3									
4									
5									
6									
7									
8									

Sample color: low
 Sample turbidity: low
 Sample odor: YES NO PID reading: _____
 Other observations: mild Comments: _____

Additional comments on methodology, etc.: _____

Signature:  5

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-3-1214
 Volatile bottles preserved by: JB 11/24/14 OSCF 2725
 Sampled by: SP

Date: 12-2-14
 Time: 10:05am
 Weather: C/D

Top of casing elevation: 634.44 ft Depth to well bottom: 89 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3.5 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:05			7.16	7.65	1.59	306	.79	-34.8
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
 Sample turbidity: low
 Sample odor: YES NO PID reading:
 Other observations: Comments:

Additional comments on methodology, etc.:

Signature:  6

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-4-1214
 Volatile bottles preserved by: JB 11/26/14 OSLC 0.725
 Sampled by: JF

Date: 12-2-14
 Time: 10:25 am
 Weather: c/c/0

Top of casing elevation: 632.34 ft Depth to well bottom: 91.55 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
 (approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:25			6.89	7.69	7.69	526	1.19	-78.9
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
 Sample turbidity: low
 Sample odor: YES NO
 Other observations: _____
 PID reading: _____
 Comments: _____

Additional comments on methodology, etc.: _____

Signature: [Signature] 7

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-5-1214
 Volatile bottles preserved by: JB 11/26/14 OSCI 2725
 Sampled by: *[Signature]*

Date: 12.2.14
 Time: 10:45 am
 Weather: Cold

Top of casing elevation: 634.9 ft Depth to well bottom: 89.6 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3.5 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:45			8.28	7.76	2.85	565	1.61	11.6
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
 Sample turbidity: low
 Sample odor: YES NO PID reading:
 Other observations: _____ Comments: _____

Additional comments on methodology, etc.: _____

Signature: *[Signature]* 8

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
 Sampling point: EW-6-1214
 Volatile bottles preserved by: JB 11/26/14 OSCI 2725
 Sampled by: S

Date: 12-2-14
 Time: 11:12
 Weather: 10/10

Top of casing elevation: 641.23 ft Depth to well bottom: 85.5 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
 (approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:12			8.12	7.87	3.49	391	1.32	-0.3
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
 Sample turbidity: low
 Sample odor: YES NO PID reading:
 Other observations: _____ Comments: _____

Additional comments on methodology, etc.: _____

Signature: [Signature] 9

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-7-1214
 Volatile bottles preserved by: JG 4/26/14 OSC 2725
 Sampled by: CP

Date: 12-2-14
 Time: 11:15 am
 Weather: 10/0

Top of casing elevation: 637.8 ft Depth to well bottom: 82.83 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
 (approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 4 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:15			20.5	7.81	3.33	734	73	5.7
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
 Sample turbidity: low
 Sample odor: YES NO
 Other observations: _____ PID reading: _____
 Comments: _____

Additional comments on methodology, etc.: _____

Signature: _____ 10

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: W-110i-1214
 Volatile bottles preserved by: JB 11/26/14 OSC 2725
 Sampled by: SP

Date: 12-2-17
 Time: 12:30 pm
 Weather: LC/D

Top of casing elevation: 638.08 ft Depth to well bottom: 90.3 ft

Depth to static water level: 28.95 ft Height of water column, H: 61.35 ft

Diameter of well casing, D: 2 inches
 (approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 9.4 gallons

Volume of water evacuated: 3 .32 gal gallons

Depth to static water level after purging: 28.95
 Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:05		28.97	2.59	7.05	2.83	1124	5.27	-28.1
2	12:20		28.97	2.94	7.40	.69	1093	1.50	-74.1
3	12:23		28.97	2.97	7.40	.60	1015	1.42	-75.0
4	12:36		28.97	2.96	7.38	.58	1000	1.34	-75.4
5									
6									
7									
8									

Sample color: clear
 Sample turbidity: low
 Sample odor: YES NO PID reading: _____
 Other observations: _____ Comments: _____

Additional comments on methodology, etc.:

Signature: [Signature] 11

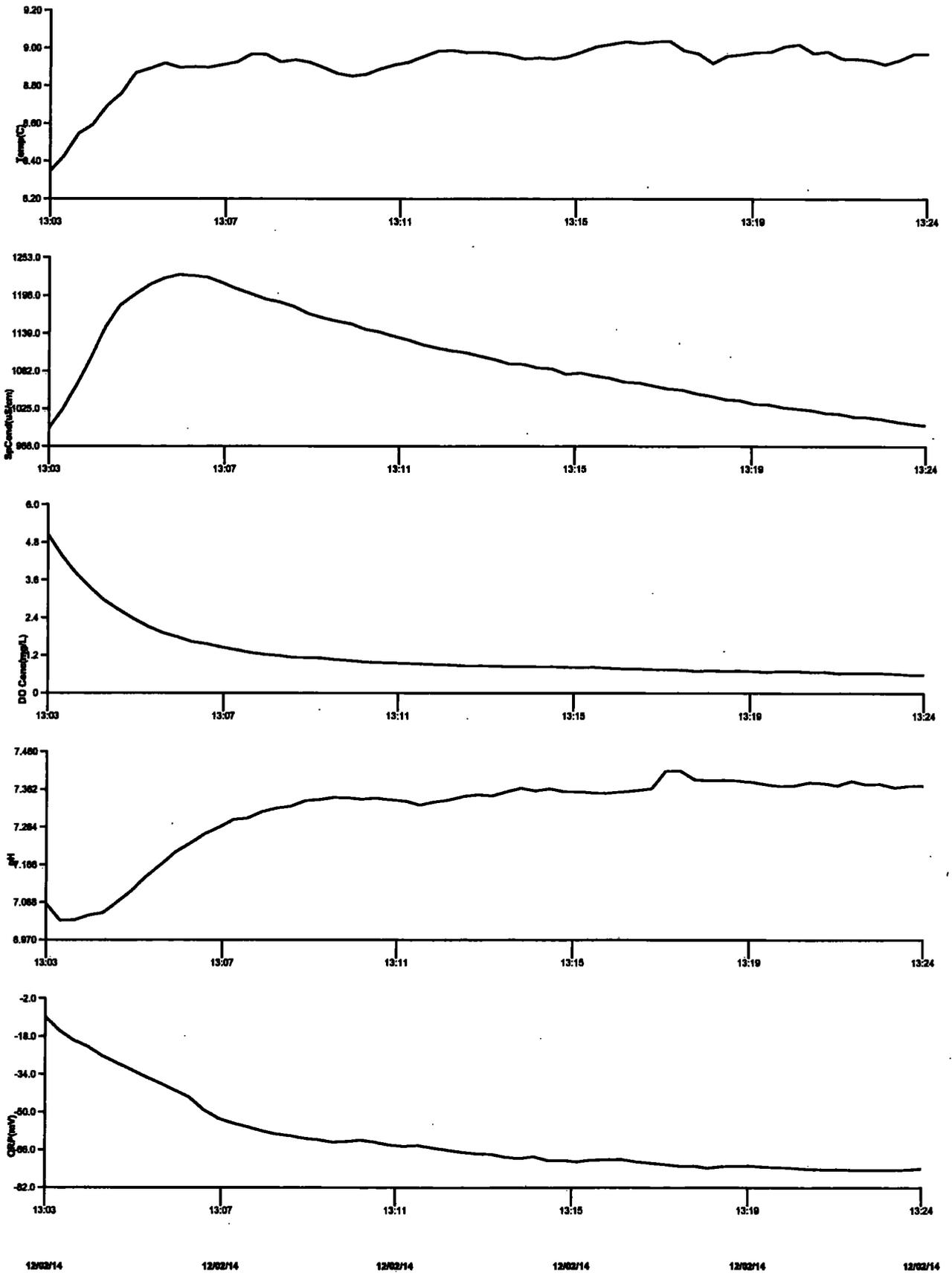
W-110I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	12/02/14 13:03:41	8.34	991.8	5.08	7.06	-9
2	12/02/14 13:04:01	8.42	1022.1	4.39	7.02	-15
3	12/02/14 13:04:21	8.54	1061.2	3.79	7.02	-19
4	12/02/14 13:04:41	8.59	1103.4	3.33	7.03	-22
5	12/02/14 13:05:01	8.69	1149.5	2.93	7.04	-26
6	12/02/14 13:05:21	8.76	1182.1	2.64	7.06	-29
7	12/02/14 13:05:41	8.87	1198.0	2.34	7.10	-32
8	12/02/14 13:06:01	8.89	1214.1	2.08	7.13	-35
9	12/02/14 13:06:21	8.92	1223.5	1.89	7.17	-38
10	12/02/14 13:06:41	8.90	1229.2	1.75	7.20	-41
11	12/02/14 13:07:01	8.90	1227.5	1.60	7.22	-44
12	12/02/14 13:07:21	8.90	1225.2	1.53	7.25	-49
13	12/02/14 13:07:41	8.91	1216.9	1.43	7.26	-53
14	12/02/14 13:08:01	8.93	1207.8	1.34	7.28	-55
15	12/02/14 13:08:21	8.97	1200.2	1.25	7.29	-57
16	12/02/14 13:08:41	8.97	1191.8	1.19	7.30	-58
17	12/02/14 13:09:01	8.93	1187.1	1.15	7.31	-60
18	12/02/14 13:09:21	8.94	1180.2	1.08	7.32	-60
19	12/02/14 13:09:41	8.93	1169.5	1.08	7.33	-62
20	12/02/14 13:10:01	8.90	1163.0	1.06	7.34	-62
21	12/02/14 13:10:21	8.86	1158.3	1.02	7.34	-63
22	12/02/14 13:10:41	8.85	1153.8	0.98	7.34	-63
23	12/02/14 13:11:01	8.86	1145.3	0.94	7.34	-62
24	12/02/14 13:11:21	8.89	1141.2	0.93	7.34	-63
25	12/02/14 13:11:41	8.91	1134.9	0.90	7.34	-65
26	12/02/14 13:12:01	8.93	1129.5	0.90	7.33	-65
27	12/02/14 13:12:21	8.96	1122.2	0.88	7.32	-65
28	12/02/14 13:12:41	8.99	1116.8	0.85	7.33	-66
29	12/02/14 13:13:01	8.99	1112.2	0.84	7.34	-67
30	12/02/14 13:13:21	8.98	1109.6	0.82	7.34	-68
31	12/02/14 13:13:41	8.98	1104.3	0.82	7.35	-68
32	12/02/14 13:14:01	8.98	1098.7	0.81	7.35	-68
33	12/02/14 13:14:21	8.97	1092.2	0.79	7.36	-70

W-110I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
34	12/02/14 13:14:41	8.94	1091.5	0.79	7.37	-70
35	12/02/14 13:15:01	8.95	1086.0	0.79	7.36	-70
36	12/02/14 13:15:21	8.94	1084.6	0.79	7.37	-71
37	12/02/14 13:15:41	8.96	1076.1	0.77	7.36	-71
38	12/02/14 13:16:01	8.98	1078.3	0.76	7.36	-72
39	12/02/14 13:16:21	9.01	1073.6	0.77	7.35	-71
40	12/02/14 13:16:41	9.02	1069.9	0.75	7.35	-71
41	12/02/14 13:17:01	9.04	1064.3	0.71	7.36	-71
42	12/02/14 13:17:21	9.03	1063.0	0.72	7.36	-72
43	12/02/14 13:17:41	9.04	1058.0	0.70	7.37	-72
44	12/02/14 13:18:01	9.04	1053.8	0.70	7.41	-73
45	12/02/14 13:18:21	8.99	1051.7	0.68	7.41	-73
46	12/02/14 13:18:41	8.97	1046.2	0.65	7.39	-73
47	12/02/14 13:19:01	8.92	1042.7	0.67	7.39	-74
48	12/02/14 13:19:21	8.96	1037.1	0.65	7.39	-74
49	12/02/14 13:19:41	8.97	1036.1	0.66	7.39	-74
50	12/02/14 13:20:01	8.98	1030.4	0.65	7.38	-73
51	12/02/14 13:20:21	8.98	1029.6	0.62	7.38	-74
52	12/02/14 13:20:41	9.01	1025.2	0.65	7.37	-74
53	12/02/14 13:21:01	9.02	1022.8	0.65	7.38	-74
54	12/02/14 13:21:21	8.98	1020.9	0.62	7.38	-75
55	12/02/14 13:21:41	8.99	1016.4	0.62	7.38	-75
56	12/02/14 13:22:01	8.95	1014.8	0.58	7.37	-75
57	12/02/14 13:22:21	8.95	1010.5	0.59	7.39	-75
58	12/02/14 13:22:41	8.94	1009.7	0.60	7.38	-75
59	12/02/14 13:23:01	8.92	1007.1	0.59	7.38	-75
60	12/02/14 13:23:21	8.94	1003.0	0.57	7.37	-75
61	12/02/14 13:23:41	8.97	1000.2	0.54	7.37	-75
62	12/02/14 13:24:01	8.97	997.3	0.53	7.37	-75

W-110I.DAT



DateTime(M/D/Y)

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**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: W-114i-1214
 Volatile bottles preserved by: JB 11/26/14 OSC 2725
 Sampled by: 90

Date: 12-2-14
 Time: 1:15 pm
 Weather: 60/60

Top of casing elevation: 636.92 ft Depth to well bottom: 83.025 ft

Depth to static water level: 27.74 ft Height of water column, H: 55.285 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 8.5 gallons

Volume of water evacuated: 3 .35 wc gallons

Depth to static water level after purging: 27.74
 Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:50		28.10	9.51	7.18	2.35	2285	2.00	-52.9
2	1:05		28.05	9.57	7.24	.70	2424	1.35	-73.6
3	1:08		28.07	9.66	7.22	1.09	2425	1.32	-72.5
4	1:11		28.05	9.70	7.23	.67	2410	1.28	-72.3
5									
6									
7									
8									

Sample color: Clear
 Sample turbidity: 1/10w
 Sample odor: YES NO
 Other observations: _____
 PID reading: _____
 Comments: _____

Additional comments on methodology, etc.:

Signature: _____ 15

W-114I.DAT

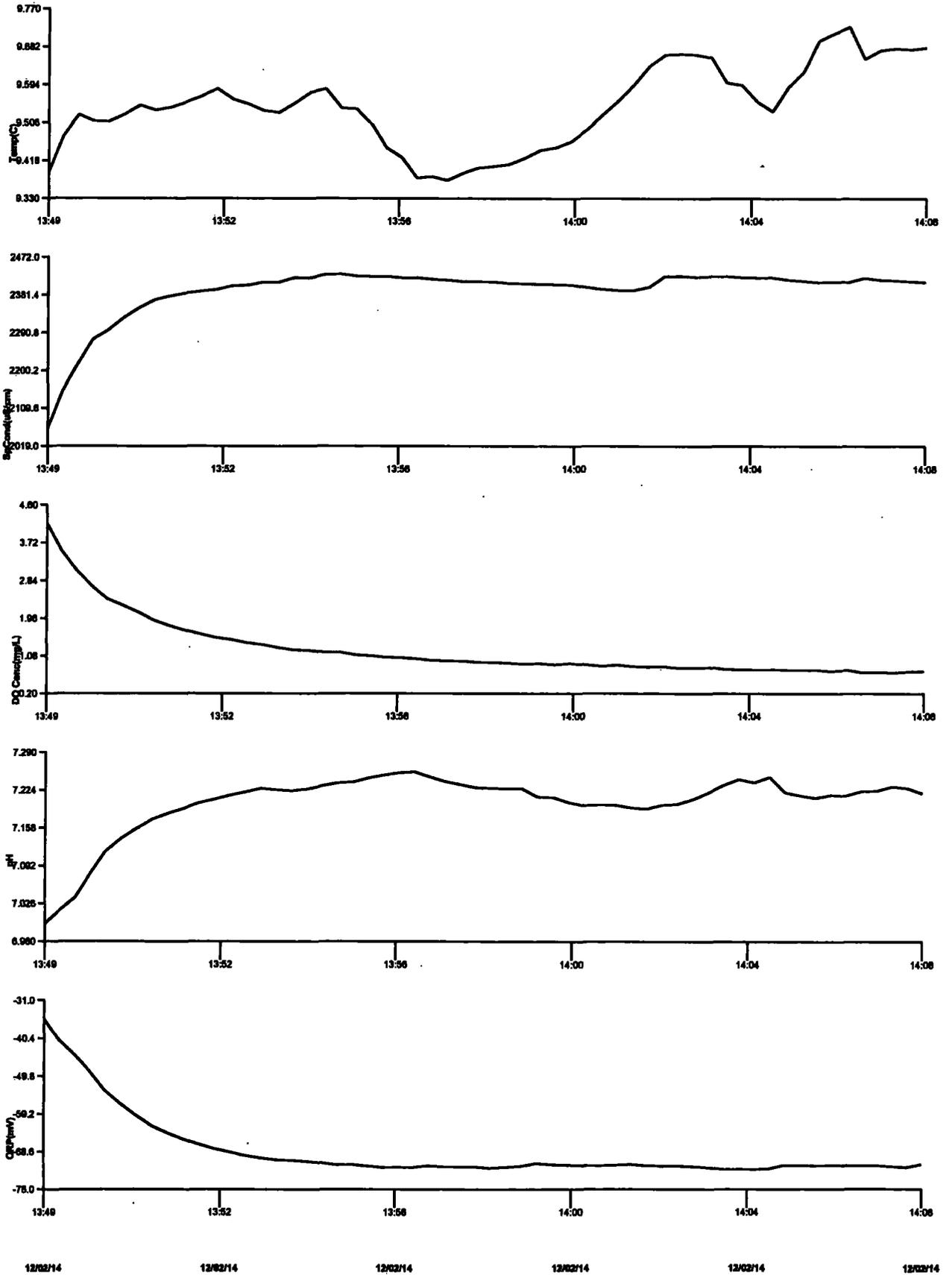
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	12/02/14 13:49:06	9.39	2057.0	4.19	6.99	-35
2	12/02/14 13:49:26	9.47	2148.5	3.54	7.01	-41
3	12/02/14 13:49:46	9.52	2214.4	3.06	7.03	-44
4	12/02/14 13:50:06	9.51	2274.4	2.70	7.08	-49
5	12/02/14 13:50:26	9.51	2296.7	2.41	7.12	-53
6	12/02/14 13:50:46	9.52	2327.0	2.25	7.14	-57
7	12/02/14 13:51:06	9.55	2351.8	2.09	7.16	-60
8	12/02/14 13:51:26	9.53	2370.8	1.90	7.17	-62
9	12/02/14 13:51:46	9.54	2380.3	1.77	7.18	-64
10	12/02/14 13:52:06	9.55	2387.5	1.66	7.19	-66
11	12/02/14 13:52:26	9.57	2391.7	1.57	7.20	-67
12	12/02/14 13:52:46	9.58	2395.7	1.48	7.21	-68
13	12/02/14 13:53:06	9.56	2405.0	1.44	7.22	-69
14	12/02/14 13:53:26	9.55	2406.7	1.36	7.22	-70
15	12/02/14 13:53:46	9.53	2414.0	1.31	7.23	-70
16	12/02/14 13:54:06	9.53	2414.2	1.25	7.23	-71
17	12/02/14 13:54:26	9.55	2424.7	1.19	7.22	-71
18	12/02/14 13:54:46	9.58	2424.0	1.18	7.23	-71
19	12/02/14 13:55:06	9.58	2432.5	1.14	7.23	-72
20	12/02/14 13:55:26	9.54	2433.8	1.14	7.24	-72
21	12/02/14 13:55:46	9.54	2429.4	1.07	7.24	-72
22	12/02/14 13:56:06	9.50	2428.3	1.05	7.25	-73
23	12/02/14 13:56:26	9.45	2428.4	1.02	7.25	-73
24	12/02/14 13:56:46	9.42	2425.0	1.00	7.26	-73
25	12/02/14 13:57:06	9.37	2425.0	0.98	7.26	-73
26	12/02/14 13:57:26	9.38	2421.9	0.94	7.25	-73
27	12/02/14 13:57:46	9.37	2419.4	0.93	7.24	-73
28	12/02/14 13:58:06	9.39	2416.5	0.92	7.23	-73
29	12/02/14 13:58:26	9.40	2416.0	0.89	7.23	-73
30	12/02/14 13:58:46	9.40	2415.0	0.89	7.23	-73
31	12/02/14 13:59:06	9.41	2412.1	0.88	7.23	-73
32	12/02/14 13:59:26	9.42	2410.6	0.86	7.23	-73
33	12/02/14 13:59:46	9.44	2409.7	0.87	7.21	-72

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W-114I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
34	12/02/14 14:00:06	9.45	2409.0	0.84	7.21	-72
35	12/02/14 14:00:26	9.46	2407.4	0.86	7.20	-72
36	12/02/14 14:00:46	9.49	2401.6	0.84	7.20	-72
37	12/02/14 14:01:06	9.52	2396.7	0.81	7.20	-73
38	12/02/14 14:01:26	9.56	2394.7	0.83	7.20	-72
39	12/02/14 14:01:46	9.60	2394.2	0.80	7.19	-72
40	12/02/14 14:02:06	9.64	2402.5	0.78	7.19	-73
41	12/02/14 14:02:26	9.66	2429.0	0.80	7.20	-73
42	12/02/14 14:02:46	9.67	2429.3	0.76	7.20	-73
43	12/02/14 14:03:06	9.67	2426.9	0.76	7.21	-73
44	12/02/14 14:03:26	9.66	2428.7	0.77	7.22	-73
45	12/02/14 14:03:46	9.60	2429.1	0.73	7.23	-73
46	12/02/14 14:04:06	9.59	2425.5	0.72	7.24	-73
47	12/02/14 14:04:26	9.55	2425.3	0.72	7.24	-73
48	12/02/14 14:04:46	9.53	2425.9	0.72	7.25	-73
49	12/02/14 14:05:06	9.59	2420.2	0.71	7.22	-72
50	12/02/14 14:05:26	9.62	2417.6	0.71	7.22	-72
51	12/02/14 14:05:46	9.70	2414.3	0.71	7.21	-73
52	12/02/14 14:06:06	9.72	2416.2	0.69	7.22	-72
53	12/02/14 14:06:26	9.73	2414.6	0.71	7.21	-73
54	12/02/14 14:06:46	9.66	2424.5	0.65	7.22	-73
55	12/02/14 14:07:06	9.68	2420.4	0.66	7.22	-73
56	12/02/14 14:07:26	9.68	2418.5	0.65	7.23	-73
57	12/02/14 14:07:46	9.68	2417.2	0.68	7.23	-73
58	12/02/14 14:08:06	9.68	2414.5	0.69	7.22	-72

W-114I.DAT



DateTime(M/D/Y)

**Groundwater Sampling
Field Data Form**

Project name: Ott Story Cordova
 Sampling point: EW-11-1214
 Volatile bottles preserved by: JR 4/26/14 08:1 2725
 Sampled by: G.P.

Date: 12-3-14
 Time: 11am
 Weather: cold/sunny

Top of casing elevation: 646.88 ft Depth to well bottom: 75 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3 gallons

Depth to static water level after purging: NA
 Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11am			9.54	5.66	3.77	1310	1.17	112
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
 Sample turbidity: low
 Sample odor: YES NO PID reading: _____
 Other observations: _____ Comments: _____

Additional comments on methodology, etc.: _____

Signature: [Signature] 19

